DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
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NOTICE OF ACCEPTANCE (NOA)

Sika Sarnafil, A Division of Sika Corp.
100 Dan Road
Canton, MA 02021

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.
This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Sika Sarnafil PVC Single Ply Roofing over Concrete Deck

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA No. 13-1008.13 and consists of pages 1 through 75.
The submitted documentation was reviewed by Alex Tigera.

ROOFING SYSTEM APPROVAL

Category:	Roofing
Sub-Category:	Single Ply
Material:	PVC
Deck Type:	Concrete
Maximum Design Pressure:	-615 psf.

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

Product	Dimensions	Test Specification	Product Description
G410	60, 72 and 80 mils	ASTM D 4434	Fiberglass reinforced PVC roofing membrane.
G410 Felt	48, 60, 72 and 80 mils	ASTM D 4434	Fiberglass reinforced PVC roofing membrane with a non-woven felt backing.
G459	48, 60, 72 and 80 mils	ASTM D 4434	Fiberglass reinforced PVC Alloy asphalt compatible flashing membrane.
S327	48, 60, 72 and 80 mils	ASTM D 4434	Polyester reinforced PVC roofing membrane.
S327 Felt	48 mils	ASTM D 4434	Polyester reinforced PVC roofing membrane with a non-woven felt backing.
Sikaplan	45 mils	ASTM D 4434	White polyester reinforced PVC roofing membrane.
Sarnatape	Various	Proprietary	Air flow barrier tape
Sarnacol 2170	5 gallons	Proprietary	Solvent based bonding adhesive.
Sarnacol 2121	5 gallons	Proprietary	Water based bonding adhesive.
Sarnacol 2163		Proprietary	Insulation adhesive.
Sarnacol AD Feltback Membrane Adhesive	5 gallons	Proprietary	Two-component foamable polyurethane membrane or insulation adhesive.
Sarnacol AD Board Adhesive	5 gallons	Proprietary	Two-component foamable polyurethane insulation adhesive.
Sarnacol OM Feltback Membrane Adhesive	5 gallons	Proprietary	Two-component foamable polyurethane membrane adhesive.
Sarnacol OM Board Adhesive	5 gallons	Proprietary	Two-component foamable polyurethane insulation adhesive.
OlyBond 500	5 gallons	Proprietary	Two-component foamable polyurethane insulation adhesive.
Sarnacol 2170 VC	Various	Proprietary	Solvent-based, VOC compliant adhesive.
Sarnatred	3.25’ x 32.8’	Proprietary	PVC walkway protection sheet.
Sarnastack	Various	Proprietary	Prefabricated cone flashing.
Sarnaclad	Various	Proprietary	Heat weldable PVC/galvanized steel flashing

APPROVED INSULATIONS:

TABLE 2

Product Name	Product Description	Manufacturer (With Current NOA)
Sarnatherm	Isocyanurate Insulation	Sika Sarnafil, A Division of Sika Corp.
Sarnatherm-25 PSI	Polyisocyanurate insulation board.	Sika Sarnafil, A Division of Sika Corp.
Sarnatherm (a)	Isocyanurate Insulation	Sika Sarnafil, A Division of Sika Corp.
ACFoam-II, ACFoam-III	Isocyanurate Insulation	Atlas Roofing Corp.
ACFoam-IV	Isocyanurate Insulation	Atlas Roofing Corp.
ACFoam Supreme	Isocyanurate Insulation	Atlas Roofing Corp.
DensDeck, DensDeck Prime	Silicon treated gypsum	Georgia Pacific Gypsum LLC
ENRGY 3, JM ISO 3	Isocyanurate Insulation	Johns Manville Corp.
ENRGY 3 Plus	Isocyanurate Insulation with wood fiberboard facer	Johns Manville Corp.
ENRGY 3 25 PSI	Isocyanurate Insulation	Johns Manville Corp.
Type X Gypsum	Gypsum Wallboard	Generic
XPS	Type IV Extruded polystyrene with a minimum density of 1.6 pcf	Generic
EPS	Type IX Expanded polystyrene with a minimum density of 1.8 pcf	Generic
Perlite Insulation Board	Wood fiber insulation	Generic
H-Shield, H-Shield-WF	Isocyanurate Insulation	Hunter Panels, LLC
H-Shield HD	Isocyanurate Insulation	Hunter Panels, LLC
ISO 95+ GL	Isocyanurate Insulation	Firestone Building Products Company, LLC
Structodek High Density Fiberboard Roof Insulation	High Density Wood Fiber insulation board.	Blue Ridge Fiberboard, Inc.
SECUROCK Gypsum-Fiber Roof Board	A rigid gypsum based board	United States Gypsum Corp.
SECUROCK Glass-Mat Roof Board	A rigid gypsum based board	United States Gypsum Corp.
Invinsa Roof Board	High density polyisocyanurate	Johns Manville Corp.

APPROVED FASTENERS:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	#14 Roofgrip, #15 Roofgrip	Insulation and membrane fastener	Various	OMG, Inc.
2.	CD-10	Insulation and membrane fastener	Various	OMG, Inc.
3.	3 in. Ribbed Galvalume Plate	Galvalume steel stress plate	3" round	OMG, Inc.
4.	OMG 3" Galvalume Steel Plate	Galvalume coated steel stress plate	3" round	OMG, Inc.
5.	Dekfast 14, Dekfast 15 HS	Insulation and membrane fasteners	Various	SFS Intec, Inc.
6.	Dekfast Galvalume Steel 3" Round	Galvalume AZ50 stress plate	3" round	SFS Intec, Inc.
7.	Sarnafastener	Insulation and membrane fastener	Various	Sika Sarnafil, A Division of Sika Corp.
8.	Sarnaplate	Insulation fastening plate.	3" round	Sika Sarnafil, A Division of Sika Corp.
9.	Sarnarail Polymer Batten Strip	Polymer Batten Bar	1" x 250'	Sika Sarnafil, A Division of Sika Corp.
10.	Sarnafastener-XP	Membrane and insulation fastener.	Various	Sika Sarnafil, A Division of Sika Corp.
11.	Sarnadisc-XPN	Membrane and insulation fastening plate.	1.5" x 3.75"	Sika Sarnafil, A Division of Sika Corp.
12.	Sarnafastener Concrete	Insulation and membrane fastener	Various	Sika Sarnafil, A Division of Sika Corp.
13.	Sarnabar	Galvanized or stainless steel membrane fastening bar.	Various	Sika Sarnafil, A Division of Sika Corp.
14.	OMG Heavy Duty	Insulation and membrane fastener	Various	OMG, Inc.
15.	Sarnafastener #12, #14	Insulation and membrane fastener	Various	Sika Sarnafil, A Division of Sika Corp.

EVIDENCE SUBMITTED:

Test Agency	Test Identifier	Description	Date
Celotex Technical Center	MTS Job No. 258215	TAS 114	09/09/97
Exterior Research & Design	02767.02.06	TAS 114	02/08/06
Factory Mutual Research Corporation	0X3A3.AM	FM 4470	07/31/94
	0P6A6.AM	FM 4470	03/03/94
	2X2A5.AM	FM 4470	07/31/94
	0B9A0.AM	FM 4470	10/22/96
	4B3A2.AM	FM 4470	06/19/97
	3D8A1.AM	FM 4470	12/23/97
	0B9A0.AM	FM 4470	05/31/96
	2D0A8.AM	FM 4470	12/23/97
	2B6A9.AM	FM 4470	08/25/98
	3001396	FM 4470	05/28/99
	3012964	FM 4470	06/11/02
	3015643	FM 4470	12/06/02
	3016201	FM 4470	01/28/03
	3006785	FM 4470	05/06/04
	3017292	FM 4470	09/03/04
	3021131	FM 4470	07/07/05
	3014692	FM 4470	08/05/03
	3009610	FM 4450	10/22/01
	3020703	FM 4470	07/30/04
	3012321	FM 4470	07/29/02
	3014751	FM 4470	08/27/03
	3024311	FM 4470	11/01/06
	3024229	FM 4470	11/16/05
	3028309	FM 4470	03/30/07
	3041256	FM 4470	07/12/11
	3000858	FM 4470	05/14/99
	3008869	FM 4470	03/19/01
	3039809	FM 4470	07/06/11
	3030053	FM 4470	09/12/07
	3043459	FM 4470	05/11/12
Underwriters Laboratories, Inc.	R8992	UL 790	05/15/13
Trinity | ERD	4740.04.98-1		
	S44790.06.13	ASTM D4434	06/05/13
	S42480.08.12	Physical Properties	08/20/12
	S44790.08.13	ASTM D4434	08/26/13
	S44790.07.14	ASTM D4434	07/31/14
	S45990.06.14	ASTM D4434	06/02/14
	S36600.03.14	FM 4474 & TAS 114	03/04/14

APPROVED ASSEMBLIES

Membrane Type: Single Ply, PVC

Deck Type 3I: Concrete, Insulated

Deck Description: Min. 2500 psi structural concrete or concrete plank

System Type A(1): One or more layers of insulation adhered with approved adhesive, membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Retarders (Optional): Any UL or FM approved vapor retarder may be installed over the deck.

One or more layers of any of the following insulations:

Base Insulation Layer (Optional):	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
Sarnatherm (a), Sarnatherm-25 PSI, Sarnatherm, ACFoam-II, ACFoam-III, JM ISO 3, ISO 95+GL, H-Shield		
Minimum 1.5" thick	**N/A**	**N/A**
DensDeck Prime		
Minimum 0.5" thick	**N/A**	**N/A**

Top Insulation Layer:	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
Sarnatherm (a), Sarnatherm-25 PSI, Sarnatherm, ACFoam-II, ACFoam-III, JM ISO 3, ISO 95+GL, H-Shield (Tapered)		
Minimum 0.5" thick	**N/A**	**N/A**

Note: All insulation shall be adhered to the deck in 3-3.5" wide beads spaced 12" o.c. of TITE-SET Roofing Adhesive or 3M Polyurethane Foam Insulation Adhesive CR-20. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Membrane: Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2121 adhesive roller applied at a rate of 0.75 gal/sq. to the insulation or with Sarnacol 2170 adhesive rolled applied as a primer at a rate 1.0-1.25 gal/sq. to the insulation allowed to dry. Following a second coat roller applied of adhesive at 1.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Or

Sarnafil G410 or S327 adhered with Sarnacol 2121 adhesive roller applied at 0.75 gal/sq. to the insulation or with Sarnacol 2170 adhesive applied at 0.75-2gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Or

Sarnafil G410 or S327 adhered with Sarnacol 2170 VC adhesive applied at 0.75 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.

Or

Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2170 VC adhesive applied to the substrate in two coats with a total application rate of 2.0 gal/sq or with Sarnacol AD Feltback Membrane Adhesive or Sarnacol OM Feltback Membrane Adhesive in 0.5" wide ribbons spaced 12" o.c. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.

Maximum Design Pressure: -45 psf. (See General Limitation #9)

Membrane Type: Single Ply, PVC

Deck Type 3I: Concrete, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(2): One or more layers of insulation adhered with approved adhesive

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Retarder (Optional):	Hot-applied:	Hot asphalt-applied base and/or ply sheets approved for use with roof cover followed by an additional asphalt-applied sheet.
	Self-Adhered:	Self-adhered base membrane approved for use with roof cover followed by an additional self-adhered sheet.
	Torch-applied:	Hot asphalt-applied base and/or ply sheets or optional torch-applied base membrane approved for use with roof cover followed by an additional torch-applied sheet.

One or more layers of any of the following insulations:

Base Insulation Layer (Optional):	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
Sarnatherm (a), Sarnatherm, Sarnatherm-25 PSI, ACFoam-II, ACFoam-III, ENRGY 3, H-Shield Minimum 1.5" thick	**N/A**	**N/A**

Top Insulation Layer:	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
Sarnatherm (a), Sarnatherm, Sarnatherm-25 PSI, ACFoam-II, ACFoam-III, ENRGY 3, H-Shield (Tapered) Minimum 1.5" thick	**N/A**	**N/A**

Note: All insulation shall be adhered to the deck or vapor barrier in TITE-SET Roofing Adhesive or 3M Polyurethane Foam Insulation Adhesive CR-20 applied in continuous 3-inch ribbons spaced 12" o.c. Refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Membrane: Sarnafil G410 or S327 adhered with Sarnacol 2121 adhesive roller applied at a rate of 0.75 gal/sq. to the insulation or with Sarnacol 2170 adhesive applied at a rate of 0.75-2gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane; The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Or

Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2121 adhesive roller applied at 0.75 gal/sq. to the insulation or with Sarnacol 2170 adhesive rolled applied as a primer at a rate 1.0-1.25 gal/sq. to the insulation allowed to dry. Following a second coat roller applied of adhesive at 1.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Or

(*With ACFoam-II, ACFoam-III, Sarnatherm (a) and Sarnatherm-25 PSI*) Sarnafil G410 or S327 adhered with Sarnacol 2170 VC adhesive applied at 0.75 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.

Or

(*With ACFoam-II, ACFoam-III, Sarnatherm (a) and Sarnatherm-25 PSI*) Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2170 VC adhesive applied to the substrate in two coats with a total application rate of 2.0 gal/sq or with Sarnacol AD Feltback Membrane Adhesive or Sarnacol OM Feltback Membrane Adhesive in 0.5" wide ribbons spaced 12" o.c. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.

Maximum Design Pressure:

-97.5 psf; with Sarnacol 2170 VC adhesive (See General Limitation #9)
-112.5 psf; Felt membranes with Sarnacol 2121 adhesive (See General Limitation #9)
-117.5 psf; with all other applications (See General Limitation #9)

Membrane Type: Single Ply, PVC

Deck Type 3I: Concrete, Insulated

Deck Description: Min. 2500 psi structural concrete or concrete plank

System Type A(3): One or more layers of insulation adhered with approved adhesive, membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations:

Base Insulation Layer (Optional):	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
Approved EPS (Not used with Sarnacol 2170 or Sarnacol 2170 VC)		
Minimum 2" thick	**N/A**	**N/A**

Top Insulation Layer:	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
DensDeck Prime		
Minimum 0.25" thick	**N/A**	**N/A**

Note: All insulation shall be adhered to the deck in ¾" – 1" wide beads 12" o.c. of Sarnacol OM Board Adhesive, OlyBond 500 or Spot Shot Adhesive Fastener. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Membrane: Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2121 adhesive roller applied at a rate of 0.75 gal/sq. to the insulation or with Sarnacol 2170 adhesive rolled applied as a primer at a rate 1.0-1.25 gal/sq. to the insulation allowed to dry. Following a second coat roller applied of adhesive at 1.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighed roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Or

Sarnafil G410 or S327 adhered with Sarnacol 2170 adhesive applied at 0.75-2gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane or with Sarnacol 2121 adhesive roller applied at 0.75gal/sq. to the insulation or with Sarnacol 2170 VC adhesive roller applied at 0.75-2gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane; The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld

Or

Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2170 VC adhesive applied to the substrate in two coats with a total application rate of 2.0 gal/sq. or with Sarnacol AD Feltback Membrane Adhesive or Sarnacol OM Feltback Membrane Adhesive in 0.5" wide ribbons spaced 12" o.c. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.

Maximum Design Pressure:

-112.5 psf; Felt membranes with Sarnacol 2121 adhesive (See General Limitation #9)
-120 psf; with all other applications (See General Limitation #9)

Membrane Type: Single Ply, PVC

Deck Type 3I: Concrete, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(4): One or more layers of insulation adhered with approved adhesive

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Retarder (Optional):

Torch-applied: Torch-applied base membrane approved for use with roof cover followed by an additional torch-applied sheet.

Asphalt-applied: Hot asphalt-applied base and/or ply sheets approved for use with roof cover.

One or more layers of any of the following insulations:

Base Insulation Layer:	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
Sarnatherm (a), Sarnatherm, Sarnatherm 25 PSI, ACFoam-II, ACFoam-III, ENRGY 3, H-Shield		
Minimum: 1.5" thick	**N/A**	**N/A**

Top Insulation Layer (Optional):	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
Sarnatherm (a), Sarnatherm, Sarnatherm 25 PSI, ACFoam-II, ACFoam-III, ENRGY 3, H-Shield		
Minimum: 1.5 " thick	**N/A**	**N/A**

Note: All insulation shall be adhered to the deck or vapor barrier in TITE-SET Roofing Adhesive or 3M Polyurethane Foam Insulation Adhesive CR-20 applied in continuous 3-inch ribbons spaced 12" o.c. Refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Membrane (Option 1): Sarnafil G410 or S327 adhered to the insulation layers as specified below.

Attachment #1: (*With ACFoam-II, ACFoam-III, Sarnatherm (a) and Sarnatherm-25 PSI*) Sarnafil G410 or S327 adhered with Sarnacol 2170 VC adhesive applied at 0.75 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.
Maximum Design Pressure: -97.5 psf. (See General Limitation #9)

Attahment #2: (*With Vapor Retarder*) Sarnafil G410 or S327 adhered with Sarnacol 2121 adhesive roller applied at a rate of 0.75 gal/sq. to the insulation or with Sarnacol 2170 adhesive applied at 0.75-2 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.
Maximum Design Pressure: -169.0 psf. (See General Limitation #9)

Attachment #3: Sarnafil G410 or S327 adhered with Sarnacol 2121 adhesive roller applied at a rate of 0.75 gal/sq. to the insulation or with Sarnacol 2170 adhesive applied at 0.75-2 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.
Maximum Design Pressure: -232.5 psf. (See General Limitation #9)

Membrane (Option 2): Sarnafild G410 Felt or S327 Felt adhered to the insulation layers as specified below.

Attachment #1: (*With ACFoam-II, ACFoam-III, Sarnatherm (a) and Sarnatherm-25 PSI*) Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2170 VC adhesive applied to the substrate in two coats with a total application rate of 2.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.
Maximum Design Pressure: -97.5 psf. (See General Limitation #9)

Attachment #2: Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2121 adhesive roller applied at 0.75 gal/sq. to the insulation or with Sarnacol 2170 adhesive rolled applied as a primer at a rate 1.0-1.25 gal/sq. to the insulation allowed to dry. Following a second coat roller applied of adhesive at 1.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.
Maximum Design Pressure: -112.5 psf. (See General Limitation #9)

Attachment #3: (*With ACFoam-II, ACFoam-III, Sarnatherm (a) and Sarnatherm-25 PSI*) Sarnafil G410 Felt or S327 Felt adhered with Sarnacol AD Feltback Membrane Adhesive or Sarnacol OM Feltback Membrane Adhesive in 0.5" wide ribbons spaced 12" o.c. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.
Maximum Design Pressure: -120.0 psf. (See General Limitation #9)

Attachment #4: (*With Vapor Retarder*) Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2121 adhesive roller applied at a rate of 0.75 gal/sq. to the insulation or with Sarnacol 2170 adhesive applied at 0.75-2 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.
Maximum Design Pressure: -169.0 psf. (See General Limitation #9)

Maximum Design Pressures: See Attachments. (See General Limitation #9)

Membrane Type: Single Ply, PVC

Deck Type 3I: Concrete, Insulated

Deck Description: Min. 2500 psi structural concrete or concrete plank

System Type A(5): One or more layers of insulation adhered with approved adhesive, membrane fully adhered

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Retarders (Optional): Any UL or FM approved asphaltic vapor retarder may be installed over the deck or the base layer of insulation

One or more layers of any of the following insulations:

Base Insulation Layer:	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
Sarnatherm (a), Sarnatherm-25 PSI, ACFoam-II, ACFoam-III, ENRGY 3 Minimum 1.5" thick	**N/A**	**N/A**
Sarnatherm, H-Shield (Requires top layer of approved insulation) Minimum 1.5" thick	**N/A**	**N/A**

Top Insulation Layer (Optional):	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
DensDeck Prime Minimum 0.25" thick	**N/A**	**N/A**

Note: All insulation shall be adhered to the deck in ½" to ¾" wide beads 12" o.c. of Sarnacol 2163, Sarnacol AD Board Adhesive, Sarnacol AD Feltback Membrane Adhesive, Millennium One Step Foamable Adhesive or Millennium PG-1 Low Viscosity Insulation Adhesive. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Membrane (Option 1): Sarnafil G410 or S327 adhered to the insulation layers as specified below.

Attachment #1: (*With ACFoam-II, ACFoam-III, Sarnatherm (a) and Sarnatherm-25 PSI*) Sarnafil G410 or S327 adhered with Sarnacol 2170 VC adhesive applied at 0.75 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.
Maximum Design Pressure: -97.5 psf. (See General Limitation #9)

Attachment #2: (*With DensDeck Prime*) Sarnafil G410 or S327 adhered with Sarnacol 2170 VC adhesive applied at 0.75 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.
Maximum Design Pressure: -127.5 psf. (See General Limitation #9)

Attachment #3: (*With DensDeck Prime*) Sarnafil G410 or S327 adhered with Sarnacol 2170 adhesive applied at 0.75-2 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.
Maximum Design Pressure: -157.5 psf; with asphaltic vapor retarder (See General Limitation #9)

Attachment #4: (*With ISO*) Sarnafil G410 or S327 adhered with Sarnacol 2121 adhesive roller applied at 0.75 gal/sq. to the insulation or with Sarnacol 2170 adhesive applied at 0.75-2gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.
Maximum Design Pressure -232.5 psf; without vapor retarder (See General Limitation #9)

Membrane (Option 2): Sarnafil G410 Felt or S327 Felt adhered to the insulation layers as specified below.

Attachment #1: (*With ACFoam-II, ACFoam-III, Sarnatherm (a) and Sarnatherm-25 PSI*) Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2170 VC adhesive applied to the substrate in two coats with a total application rate of 2.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.
Maximum Design Pressure: -97.5 psf. (See General Limitation #9)

Attachment #2: Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2121 adhesive roller applied at a rate of 0.75 gal/sq. to the insulation or with Sarnacol 2170 adhesive rolled applied as a primer at a rate 1.0-1.25 gal/sq. to the insulation allowed to dry. Following a second coat roller applied of adhesive at 1.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.
Maximum Design Pressure: -112.5 psf. (See General Limitation #9)

Attachment #3: *(With ACFoam-II, ACFoam-III, Sarnatherm (a) and Sarnatherm-25 PSI or DensDeck Prime*) Sarnafil G410 Felt or S327 Felt adhered with Sarnacol AD Feltback Membrane Adhesive or Sarnacol OM Feltback Membrane Adhesive in 0.5" wide ribbons spaced 12" o.c. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.
Maximum Design Pressure: -120.0 psf. (See General Limitation #9)

Attachement #4: (*With DensDeck Prime*) Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2170 VC adhesive applied to the substrate in two coats with a total application rate of 2.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.
Maximum Design Pressure: -127.5 psf. (See General Limitation #9)

Attachment #5: (*With DensDeck Prime*) Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2170 adhesive applied at 0.75-2 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane or with Sarnacol 2121 adhesive roller applied at 0.75gal/sq. to the insulation. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld. ***Maximum Design Pressure: -157.5 psf; with asphaltic vapor retarder (See General Limitation #9)***

Maximum Design Pressures: See Attachment. (See General Limitation #9)

Membrane Type: Single Ply, PVC

Deck Type 3I: Concrete, Insulated

Deck Description: Minimum 2500 psi structural concrete or concrete plank

System Type A(6): One or more layers of insulation fully adhered with approved asphalt.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations:

Base Insulation Layer:	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
Sarnatherm (a), Sarnatherm-25 PSI, ACFoam-II, ACFoam-III Minimum 1.3" thick or tapered	**N/A**	**N/A**
Sarnatherm, ENRGY 3, ENRGY 3 Plus, ENRGY 3 25 PSI, H-Shield Minimum 1.4" thick or tapered	**N/A**	**N/A**
H-Shield-WF Minimum 1.9" thick or tapered	**N/A**	**N/A**

Top Insulation Layer (Optional):	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
DensDeck Prime Minimum ¼" thick	**N/A**	**N/A**

Note: Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of base sheet. All insulation shall be adhered to the deck in full mopping of approved asphalt within the EVT range and at a rate of 20-40 lbs/100 ft^2. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the polyisocyanurate side facing down.

Membrane (Option 1): Sarnafil G410 or S327 adhered to the insulation layers as specified below.

Attachment #1: (*With ACFoam-II, ACFoam-III, Sarnatherm (a) and Sarnatherm-25 PSI*) Sarnafil G410 or S327 adhered with Sarnacol 2170 VC adhesive applied at 0.75 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.
Maximum Design Pressure: -97.5 psf. (See General Limitation #9)

Attachment #2: (*With DensDeck Prime*) Sarnafil G410 or S327 adhered with Sarnacol 2170 VC adhesive applied at 0.75 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.
Maximum Design Pressure: -127.5 psf. (See General Limitation #9)

Attachment #3: (*With ACFoam-II, ACFoam-III, ENRGY 3 and H-Shield*) Sarnafil G410 or S327 adhered with Sarnacol 2121 adhesive roller applied at 0.75 gal/sq. to the insulation or with Sarnacol 2170 adhesive applied at 0.75-2 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.
Maximum Design Pressure: -232.5 psf. (See General Limitation #9)

Attachment #4: (*With DensDeck Prime*) Sarnafil G410 or S327 adhered with Sarnacol 2170 adhesive applied at 0.75-2 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane or with Sarnacol 2121 adhesive roller applied at 0.75gal/sq. to the insulation. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.
Maximum Design Pressure: -232.5 psf. (See General Limitation #9)

Attachment #5: (*With H-Shield-WF*) Sarnafil G410 or S327 adhered with Sarnacol 2121 adhesive roller applied at 0.75 gal/sq. to the insulation. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.
Maximum Design Pressure: -255.0 psf. (See General Limitation #9)

Membrane (Option 2): Sarnafil G410 Felt or S327 Felt adhered to the insulation layers as specified below.

Attachment #1: (*With ACFoam-II, ACFoam-III, Sarnatherm (a) and Sarnatherm-25 PSI*) Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2170 VC adhesive applied to the substrate in two coats with a total application rate of 2.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.
Maximum Design Pressure: -97.5 psf. (See General Limitation #9)

Attachment #2: Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2121 adhesive roller applied at a rate of 0.75 gal/sq. to the insulation or with Sarnacol 2170 adhesive rolled applied as a primer at a rate 1.0-1.25 gal/sq. to the insulation allowed to dry. Following a second coat roller applied of adhesive at 1.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.
Maximum Design Pressure: -112.5 psf. (See General Limitation #9)

Attachment #3: (*With ACFoam-II, ACFoam-III, Sarnatherm (a) and Sarnatherm-25 PSI or DensDeck Prime*) Sarnafil G410 Felt or S327 Felt adhered with Sarnacol AD Feltback Membrane Adhesive or Sarnacol OM Feltback Membrane Adhesive in 0.5" wide ribbons spaced 12" o.c. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.
Maximum Design Pressure: -120.0 psf. (See General Limitation #9)

Attachment #4: (*With DensDeck Prime*) Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2170 VC adhesive applied to the substrate in two coats with a total application rate of 2.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.
Maximum Design Pressure: -127.5 psf. (See General Limitation #9)

Maximum Design Pressures: See Attachment. (See General Limitation #9)

Membrane Type: Single Ply, PVC

Deck Type 3I: Concrete, Insulated

Deck Description: Min. 2500 psi structural concrete or concrete plank

System Type A(7): One or more layers of insulation adhered with approved adhesive, membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Retarders (Optional): Any UL or FM approved asphaltic vapor retarder may be installed over the deck or the base layer of insulation

One or more layers of any of the following insulations:

Base Insulation Layer:	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
Sarnatherm (a), Sarnatherm, Sarnatherm-25 PSI, ACFoam-II, ACFoam-III, ENRGY 3, ISO 95+ GL, H-Shield		
Minimum 1.5" thick	**N/A**	**N/A**

Top Insulation Layer:	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
DensDeck Prime		
Minimum 0.25" thick	**N/A**	**N/A**

Note: All insulation shall be adhered to the deck in ¾" – 1" wide beads 12" o.c. of Sarnacol OM Board Adhesive, OlyBond 500 or Spot Shot Adhesive Fastener. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Membrane (Option 1): Sarnafil G410 or S327 adhered to the insulation layers as specified below.

Attachment #1: Sarnafil G410 or S327 adhered with Sarnacol 2170 VC adhesive applied at 0.75 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.
Maximum Design Pressure: -127.5 psf. (See General Limitation #9)

Attachment #2: Sarnafil G410 or S327 adhered with Sarnacol 2170 adhesive applied at 0.75-2 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.
Maximum Design Pressure: -150.0 psf; with asphaltic vapor retarder (See General Limitation #9)

Membrane (Option 2): Sarnafil G410 Felt or S327 Felt adhered to the insulation layers as specified below.

Attachment #1: Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2121 adhesive roller applied at a rate of 0.75 gal/sq. to the insulation or with Sarnacol 2170 adhesive rolled applied as a primer at a rate 1.0-1.25 gal/sq. to the insulation allowed to dry. Following a second coat roller applied of adhesive at 1.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.
Maximum Design Pressure: -112.5 psf. (See General Limitation #9)

Attachment #2: Sarnafil G410 Felt or S327 Felt adhered with Sarnacol AD Feltback Membrane Adhesive or Sarnacol OM Feltback Membrane Adhesive in 0.5" wide ribbons spaced 12" o.c. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.
Maximum Design Pressure: -120.0 psf. (See General Limitation #9)

Attachment #3: Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2170 VC adhesive applied to the substrate in two coats with a total application rate of 2.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.
Maximum Design Pressure: -127.5 psf. (See General Limitation #9)

Attachment #4: Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2170 adhesive applied at 0.75-2 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane or with Sarnacol 2121 adhesive roller applied at 0.75gal/sq. to the insulation. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.
Maximum Design Pressure: -150.0 psf; with asphaltic vapor retarder (See General Limitation #9)

Maximum Design Pressures: See Attachment. (See General Limitation #9)

Membrane Type: Single Ply, PVC

Deck Type 3I: Concrete, Insulated

Deck Description: Min. 2500 psi structural concrete or concrete plank

System Type A(8): One or more layers of insulation adhered with approved adhesive, membrane fully adhered

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Retarders (Optional): Any UL or FM approved asphaltic vapor retarder may be installed over the deck or the base layer of insulation

One or more layers of any of the following insulations:

Base Insulation Layer:	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
Sarnatherm (a), Sarnatherm, Sarnatherm-25 PSI, ACFoam-II, ACFoam-III, ISO 95+ GL, ENRGY 3, H-Shield Minimum 1.5" thick	**N/A**	**N/A**
DensDeck Prime Minimum 0.25" thick	**N/A**	**N/A**

Top Insulation Layer (Optional):	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
DensDeck Prime Minimum 0.25" thick	**N/A**	**N/A**

Note: All insulation shall be adhered to the deck in ¾" – 1" wide beads 12" o.c. of Sarnacol OM Board Adhesive, OlyBond 500 or Spot Shot Adhesive Fastener. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Membrane (Option 1): Sarnafil G410 or S327 adhered to the insulation layers as specified below.

Attachment #1: (*With ACFoam-II, ACFoam-III, Sarnatherm (a) and Sarnatherm-25 PSI*) Sarnafil G410 or S327 adhered with Sarnacol 2170 VC adhesive applied at 0.75 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.
Maximum Design Pressure: -97.5 psf. (See General Limitation #9)

Attachment #2: (*With DensDeck Prime*) Sarnafil G410 or S327 adhered with Sarnacol 2170 VC adhesive applied at 0.75 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.
Maximum Design Pressure: -127.5 psf. (See General Limitation #9)

Attachment #3: Sarnafil G410 or S327 adhered with Sarnacol 2170 adhesive applied at 0.75-2 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.
Maximum Design Pressure: -150.0 psf; with asphaltic vapor retarder (See General Limitation #9)

Membrane (Option 2): Sarnafil G410 Felt or S327 Felt adhered to the insulation layers as specified below.

Attachment #1: (*With ACFoam-II, ACFoam-III, Sarnatherm (a) and Sarnatherm-25 PSI*) Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2170 VC adhesive applied to the substrate in two coats with a total application rate of 2.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.
Maximum Design Pressure: -97.5 psf. (See General Limitation #9)

Attachment #2: Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2121 adhesive roller applied at a rate of 0.75 gal/sq. to the insulation or with Sarnacol 2170 adhesive rolled applied as a primer at a rate 1.0-1.25 gal/sq. to the insulation allowed to dry. Following a second coat roller applied of adhesive at 1.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.
Maximum Design Pressure: -112.5 psf. (See General Limitation #9)

Attachment #3: (*With ACFoam-II, ACFoam-III, Sarnatherm (a) and Sarnatherm-25 PSI or DensDeck Prime*) Sarnafil G410 Felt or S327 Felt adhered with Sarnacol AD Feltback Membrane Adhesive or Sarnacol OM Feltback Membrane Adhesive in 0.5" wide ribbons spaced 12" o.c. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.
Maximum Design Pressure: -120.0 psf. (See General Limitation #9)

Attachment #4: (*With DensDeck Prime*) Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2170 VC adhesive applied to the substrate in two coats with a total application rate of 2.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.
Maximum Design Pressure: -127.5 psf. (See General Limitation #9)

Attachment #5: Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2170 adhesive applied at 0.75-2 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane or with Sarnacol 2121 adhesive roller applied at 0.75gal/sq. to the insulation. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.
Maximum Design Pressure: -150.0 psf; with asphaltic vapor retarder (See General Limitation #9)

Maximum Design Pressures; See Attachment. (See General Limitation #9)

Membrane Type: Single Ply, PVC

Deck Type 3I: Concrete, Insulated

Deck Description: Min. 2500 psi structural concrete or concrete plank

System Type A(9): One or more layers of insulation adhered with approved adhesive, membrane fully adhered

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations:

Base Insulation Layer:	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
ENRGY 3, ENRGY 3 25 PSI Minimum 1.5" thick	**N/A**	**N/A**

Top Insulation Layer (Optional):	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
ENRGY 3 Plus Minimum 1.5" thick	**N/A**	**N/A**

Note: All insulation shall be adhered to the deck with hot asphalt at a rate of 25 lb/sq. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Membrane: Sarnafil G410 or S327 adhered with Sarnacol 2121 adhesive roller applied at a rate of 0.75 gal/sq. to the insulation. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Maximum Design Pressure: -210.0 psf. (See General Limitation #9)

Membrane Type: Single Ply, PVC

Deck Type 3I: Concrete, Insulated

Deck Description: Min. 2500 psi structural concrete or concrete plank

System Type A(10): One or more layers of insulation adhered with approved adhesive, membrane fully adhered

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations:

Base Insulation Layer:	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
ENRGY 3, ENRGY 3 25 PSI Minimum 1.5" thick	**N/A**	**N/A**

Top Insulation Layer (Optional):	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
ENRGY 3 25 PSI Minimum 1.5" thick	**N/A**	**N/A**

Note: All insulation shall be adhered to the deck with hot asphalt at a rate of 25 lb/sq. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Membrane: Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2121 adhesive roller applied to substrate at a rate of 0.75 gal/sq. to the insulation or with Sarnacol 2170 adhesive roller applied as a primer at a rate of 1.0-1.25 gal/sq. and allowed to dry. Following a second coat application of Sarnacol 2170 adhesive roller applied to substrate at a rate of 1.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Maximum Design Pressure: -112.5 psf; Felt membranes with Sarnacol 2121 adhesive (See General Limitation #9)
-232.5 psf; Felt membranes with Sarnacol 2170 adhesive (See General Limitation #9)

Membrane Type: Single Ply, PVC

Deck Type 3I: Concrete, Insulated

Deck Description: Min. 2500 psi structural concrete or concrete plank

System Type A(11): One or more layers of insulation adhered with approved adhesive, membrane fully adhered

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations:

Base Insulation Layer:	Insulation Fasteners (Table 3)	Fastener Density/ft^2
Sarnatherm (a), Sarnatherm, Sarnatherm-25 PSI, ACFoam-II, ACFoam-III, ENRGY 3, H-Shield Minimum 1.5" thick	**N/A**	**N/A**

Note: All insulation shall be adhered to the deck with hot asphalt at a rate of 25 lb/sq. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Membrane (Option 1): Sarnafil G410 or S327 adhered to the insulation layers as specified below.

Attachment #1: (*With ACFoam-II, ACFoam-III, Sarnatherm (a) and Sarnatherm-25 PSI*) Sarnafil G410 or S327 adhered with Sarnacol 2170 VC adhesive applied at 0.75 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.
Maximum Design Pressure: -97.5 psf. (See General Limitation #9)

Attachment #2: Sarnafil G410 or S327 adhered with Sarnacol 2121 adhesive roller applied at a rate of 0.75gal/sq. or with Sarnacol 2170 adhesive applied to substrate at a rate of 0.75-2 gal/sq. and allowed to dry. Following a second coat application of Sarnacol 2170 adhesive roller applied to substrate at a rate of 0.5 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.
Maximum Design Pressure: -232.5 psf. (See General Limitation #9)

Membrane (Option 2): Sarnafil G410 Felt or S327 Felt adhered to the insulation layers as specified below.

Attachment #1: (*With ACFoam-II, ACFoam-III, Sarnatherm (a) and Sarnatherm-25 PSI*) Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2170 VC adhesive applied to the substrate in two coats with a total application rate of 2.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.
Maximum Design Pressure: -97.5 psf. (See General Limitation #9)

Attachment #2: Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2121 adhesive roller applied at 0.75 gal/sq. to the insulation or with Sarnacol 2170 adhesive rolled applied as a primer at a rate 1.0-1.25 gal/sq. to the insulation allowed to dry. Following a second coat roller applied of adhesive at 1.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.
Maximum Design Pressure: -112.5 psf. (See General Limitation #9)

Attachment #3: (*With ACFoam-II, ACFoam-III, Sarnatherm (a) and Sarnatherm-25 PSI*) Sarnafil G410 Felt or S327 Felt adhered with Sarnacol AD Feltback Membrane Adhesive or Sarnacol OM Feltback Membrane Adhesive in 0.5" wide ribbons spaced 12" o.c. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.
Maximum Design Pressure: -120.0 psf. (See General Limitation #9)

Attachment #4: (*With ACFoam-II, ACFoam-III, Sarnatherm (a) and Sarnatherm-25 PSI*) Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2121 adhesive roller applied at a rate of 0.75 gal/sq. to the insulation or with Sarnacol 2170 adhesive roller applied as a primer at a rate of 1.0-1.25 gal/sq. and allowed to dry. Following a second coat application of Sarnacol 2170 adhesive roller applied to substrate at a rate of 1.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.
Maximum Design Pressure: -240.0 psf. (See General Limitation #9)

Attachment #5; (*With H-Shield and ENRGY 3*) Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2121 adhesive roller applied at a rate of 0.75 gal/sq. to the insulation or with Sarnacol 2170 adhesive roller applied as a primer at a rate of 1.0-1.25 gal/sq. and allowed to dry. Following a second coat application of Sarnacol 2170 adhesive roller applied to substrate at a rate of 1.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.
Maximum Design Pressure: -255.0 psf. (See General Limitation #9)

Maximum Design Pressures: See Attachments. (See General Limitation #9)

Membrane Type: Single Ply, PVC

Deck Type 3I: Concrete, Insulated

Deck Description: Min. 2500 psi structural concrete or concrete plank

System Type A(12): One or more layers of insulation adhered with approved adhesive, membrane fully adhered

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations:

Base Insulation Layer:	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
Sarnatherm, H-Shield Minimum 1.5" thick	**N/A**	**N/A**

Top Insulation Layer (Optional):	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
H-Shield-WF Minimum 1.5" thick	**N/A**	**N/A**

Note: All insulation shall be adhered to the deck with hot asphalt at a rate of 25 lb/sq. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Membrane: Sarnafil G410 or S327 adhered with Sarnacol 2121 adhesive roller applied at a rate of 0.75gal/sq. to the insulation. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Maximum Design Pressure: -255 psf (See General Limitation #9)

Membrane Type: Single Ply, PVC

Deck Type 3I: Concrete, Insulated

Deck Description: Minimum 2500 psi structural concrete or concrete plank

System Type A(13): One or more layers of insulation fully adhered with approved asphalt.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations:

Base Insulation Layer:	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
Sarnatherm (a), Sarnatherm-25 PSI, ACFoam-II, ACFoam-III Minimum 1.3" thick or tapered	**N/A**	**N/A**
Sarnatherm, ENRGY 3, ENRGY 3 Plus, ENRGY 3 25 PSI, H-Shield Minimum 1.4" thick or tapered	**N/A**	**N/A**
H-Shield-WF Minimum 1.9" thick or tapered	**N/A**	**N/A**

Note: Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of base sheet. All insulation shall be adhered to the deck in full mopping of approved asphalt within the EVT range and at a rate of 20-40 lbs/100 ft^2. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the polyisocyanurate side facing down.

Membrane (Option 1): Sarnafil G410 or S327 adhered to the insulation layers as specified below.

Attachment #1: (*With ACFoam-II, ACFoam-III, Sarnatherm (a) and Sarnatherm-25 PSI*) Sarnafil G410 or S327 adhered with Sarnacol 2170 VC adhesive applied at 0.75 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.
Maximum Design Pressure: -97.5 psf. (See General Limitation #9)

Attachment #2: (*With ENRGY 3 Plus*) Sarnafil G410 or S327 adhered with Sarnacol 2121 adhesive roller applied at 0.75 gal/sq. to the insulation. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.
Maximum Design Pressure: -210.0 psf. (See General Limitation #9)

Attachment #3: (*With H-Shield-WF*) Sarnafil G410 or S327 adhered with Sarnacol 2121 adhesive roller applied at 0.75 gal/sq. to the insulation. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.
Maximum Design Pressure: -210.0 psf. (See General Limitation #9)

Attachment #4: (*With ACFoam-II, ACFoam-III, Sarnatherm (a), Sarnatherm, Sarnatherm-25 PSI, ENRGY 3, ENRGY 3 25 PSI and H-Shield*) Sarnafil G410 or S327 adhered with Sarnacol 2121 adhesive roller applied at 0.75 gal/sq. to the insulation or with Sarnacol 2170 adhesive applied at 0.75-2 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.
Maximum Design Pressure: -232.5 psf. (See General Limitation #9)

Membrane (Option 2): Sarnafil G410 Felt or S327 Felt adhered to the insulation layers as specified below.

Attachment #1: (*With ACFoam-II, ACFoam-III, Sarnatherm (a) and Sarnatherm-25 PSI*) Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2170 VC adhesive applied to the substrate in two coats with a total application rate of 2.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.
Maximum Design Pressure: -97.5 psf. (See General Limitation #9)

Attachment #2: Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2121 adhesive roller applied at 0.75 gal/sq. to the insulation or with Sarnacol 2170 adhesive rolled applied as a primer at a rate 1.0-1.25 gal/sq. to the insulation allowed to dry. Following a second coat roller applied of adhesive at 1.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.
Maximum Design Pressure: -112.5 psf. (See General Limitation #9)

Attachment #3: (*With ACFoam-II, ACFoam-III, Sarnatherm (a) and Sarnatherm-25 PSI*) Sarnafil G410 Felt or S327 Felt adhered with Sarnacol AD Feltback Membrane Adhesive or Sarnacol OM Feltback Membrane Adhesive in 0.5" wide ribbons spaced 12" o.c. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.
Maximum Design Pressure: -120.0 psf. (See General Limitation #9)

Maximum Design Pressures: See Attachments. (See General Limitation #9)

Membrane Type: Single Ply, PVC

Deck Type 3I: Concrete, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(14): One or more layers of insulation adhered with approved adhesive

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Retarder (Optional):	Hot-applied:	Hot asphalt-applied base and/or ply sheets approved for use with roof cover followed by an additional asphalt-applied sheet.
	Self-Adhered:	Self-adhered base membrane approved for use with roof cover followed by an additional self-adhered sheet
	Torch-applied:	Hot asphalt-applied base and/or ply sheets or optional torch-applied base membrane approved for use with roof cover followed by an additional torch-applied sheet

One or more layers of any of the following insulations:

Base Insulation Layer (Optional):	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
Sarnatherm (a), Sarnatherm, Sarnatherm-25 PSI, ACFoam-II, ACFoam-III, ENRGY 3, H-Shield		
Minimum: 1.5" thick	**N/A**	**N/A**

Top Insulation Layer:	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
Structodek High Density Fiberboard Roof Insulation		
Minimum: 0.5" thick	**N/A**	**N/A**

Note: All insulation shall be adhered to the deck or vapor barrier in TITE-SET Roofing Adhesive or 3M Polyurethane Foam Insulation Adhesive CR-20 applied in continuous 3-inch ribbons spaced 12" o.c. Refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Membrane: Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2121 adhesive roller applied at a rate of 0.75 gal/sq. to the insulation. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Or

Sarnafil G410 or S327 adhered with Sarnacol 2121 adhesive roller applied at 0.75 gal/sq. to the insulation. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Maximum Design Pressure: -112.5 psf. (See General Limitation #9)

Membrane Type: Single Ply, PVC

Deck Type 3I: Concrete, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(15): One or more layers of insulation adhered with approved adhesive

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Retarder (Optional): Torch-applied: Torch-applied base membrane approved for use with roof cover followed by an approved torch-applied sheet.

One or more layers of any of the following insulations:

Base Insulation Layer (Optional):	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
Sarnatherm (a), Sarnartherm, Sarnatherm-25 PSI, ACFoam-II, ACFoam-III, ENRGY 3, H-Shield or Approved XPS or EPS (Not used with Sarnacol 2170 or Sarnacol 2170 VC)		
Minimum: 1.5" thick	**N/A**	**N/A**

Top Insulation Layer:	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
DensDeck Prime		
Minimum: 0.25" thick	**N/A**	**N/A**

Note: All insulation shall be adhered to the deck or vapor barrier in TITE-SET Roofing Adhesive or 3M Polyurethane Foam Insulation Adhesive CR-20 applied in continuous 3-inch ribbons spaced 12" o.c. Refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Membrane (Option 1): Sarnafil G410 or S327 adhered to the insulation layers as specified below.

Attachment #1: Sarnafil G410 or S327 adhered with Sarnacol 2170 VC adhesive applied at 0.75 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.
Maximum Design Pressure: -127.5 psf. (See General Limitation #9)

Attachment #2: (*With Vapor Retarder*) Sarnafil G410 or S327 adhered with Sarnacol 2170 adhesive applied at 0.75-2 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.
Maximum Design Pressure: -169.0 psf. (See General Limitation #9)

Membrane (Option 2): Sarnafil G410 Felt or S327 Felt adhered to the insulation layers as specified below.

Attachment #1: Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2121 adhesive roller applied at a rate of 0.75 gal/sq. to the insulation or with Sarnacol 2170 adhesive rolled applied as a primer at a rate 1.0-1.25 gal/sq. to the insulation allowed to dry. Following a second coat roller applied of adhesive at 1.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.
Maximum Design Pressure: -112.5 psf. (See General Limitation #9)

Attachment #2: Sarnafil G410 Felt or S327 Felt adhered with Sarnacol AD Feltback Membrane Adhesive or Sarnacol OM Feltback Membrane Adhesive in 0.5" wide ribbons spaced 12" o.c. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.
Maximum Design Pressure: -120.0 psf. (See General Limitation #9)

Attachment #3: Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2170 VC adhesive applied to the substrate in two coats with a total application rate of 2.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.
Maximum Design Pressure: -127.5 psf. (See General Limitation #9)

Attachment #4: (*With Vapor Retarder*) Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2121 adhesive roller applied at a rate of 0.75 gal/sq. to the insulation or with Sarnacol 2170 adhesive applied at 0.75-2 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.
Maximum Design Pressure: -169.0 psf. (See General Limitation #9)

Maximum Design Pressures: See Attachments, (See General Limitation #9)

Membrane Type: Single Ply, PVC

Deck Type 3I: Concrete, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(16): One or more layers of insulation adhered with approved adhesive

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Retarder (Optional):

Hot-applied: Hot asphalt-applied base and/or ply sheets approved for use with roof cover followed by an additional asphalt-applied sheet.

Self-Adhered: Self-adhered base membrane approved for use with roof cover followed by an additional self-adhered sheet.

One or more layers of any of the following insulations:

Base Insulation Layer:	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
Approved XPS or EPS Minimum: 1.5" thick	**N/A**	**N/A**

Top Insulation Layer:	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
DensDeck Prime Minimum: 0.25" thick	**N/A**	**N/A**

Note: All insulation shall be adhered to the deck or vapor barrier in TITE-SET Roofing Adhesive or 3M Polyurethane Foam Insulation Adhesive CR-20 applied in continuous 3-inch ribbons spaced 12" o.c. Refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Membrane (Option 1): Sarnafil G410 or S327 adhered to the insulation layers as specified below.

Attachment #1: (*With Vapor Retarder*) Sarnafil G410 or S327 adhered with Sarnacol 2170 adhesive applied at 0.75-2 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.
Maximum Design Pressure: -180.0 psf. (See General Limitation #9)

Membrane (Option 2): Sarnafil G410 Felt or S327 Felt adhered to the insulation layers as specified below.

Attachment #1: Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2121 adhesive roller applied at a rate of 0.75 gal/sq. to the insulation or with Sarnacol 2170 adhesive rolled applied as a primer at a rate 1.0-1.25 gal/sq. to the insulation allowed to dry. Following a second coat roller applied of adhesive at 1.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.
Maximum Design Pressure: -112.5 psf. (See General Limitation #9)

Attachment #2: Sarnafil G410 Felt or S327 Felt adhered with Sarnacol AD Feltback Membrane Adhesive or Sarnacol OM Feltback Membrane Adhesive in 0.5" wide ribbons spaced 12" o.c. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.
Maximum Design Pressure: -120.0 psf. (See General Limitation #9)

Attachment #3 (*With Vapor Retarder*) Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2121 adhesive roller applied at a rate of 0.75 gal/sq. to the insulation or with Sarnacol 2170 adhesive applied at 0.75-2 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.
Maximum Design Pressure: -180.0 psf. (See General Limitation #9)

Maximum Design Pressures: See Attachments. (See General Limitation #9)

Membrane Type: Single Ply, PVC

Deck Type 3I: Concrete, Insulated

Deck Description: Min. 2500 psi structural concrete or concrete plank

System Type A(17): One or more layers of insulation adhered with approved adhesive, membrane fully adhered

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations:

Base Insulation Layer:	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
Sarnatherm (a), Sarnatherm, Sarnatherm-25 PSI, ACFoam-II, ACFoam-III, ENRGY 3, ISO 95+GL, H-Shield		
Minimum 1.5" thick	**N/A**	**N/A**
DensDeck Prime		
Minimum 0.25" thick	**N/A**	**N/A**

Top Insulation Layer:	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
DensDeck Prime		
Minimum 0.25" thick	**N/A**	**N/A**

Note: All insulation shall be adhered to the deck in full coating of OlyBond Adhesive Fastener at a rate of 1 gal/sq. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Membrane (Option 1): Sarnafil G410 or S327 adhered to the insulation layers as specified below.

Attachment #1: Sarnafil G410 or S327 adhered with Sarnacol 2170 VC adhesive applied at 0.75 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.
Maximum Design Pressure: -127.5 psf. (See General Limitation #9)

Attachment #2: Sarnafil G410 or S327 adhered with Sarnacol 2170 adhesive applied at 0.75-2 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.
Maximum Design Pressure: -150.0 psf. (See General Limitation #9)

Membrane (Option 2): Sarnafil G410 Felt or S327 Felt adhered to the insulation layers as specified below.

Attachment #1: Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2121 adhesive roller applied at a rate of 0.75 gal/sq. to the insulation or with Sarnacol 2170 adhesive rolled applied as a primer at a rate 1.0-1.25 gal/sq. to the insulation allowed to dry. Following a second coat roller applied of adhesive at 1.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.
Maximum Design Pressure: -112.5 psf. (See General Limitation #9)

Attachment #2: Sarnafil G410 Felt or S327 Felt adhered with Sarnacol AD Feltback Membrane Adhesive or Sarnacol OM Feltback Membrane Adhesive in 0.5" wide ribbons spaced 12" o.c. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.
Maximum Design Pressure: -120.0 psf. (See General Limitation #9)

Attachment #3: Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2170 VC adhesive applied to the substrate in two coats with a total application rate of 2.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.
Maximum Design Pressure: -127.5 psf. (See General Limitation #9)

Attachment #4: Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2170 adhesive applied at 0.75-2 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane or with Sarnacol 2121 adhesive roller applied at 0.75gal/sq. to the insulation. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.
Maximum Design Pressure: -150.0 psf. (See General Limitation #9)

Maximum Design Pressures: See Attachment. (See General Limitation #9)

Membrane Type: Single Ply, PVC

Deck Type 3I: Concrete, Insulated

Deck Description: Min. 2500 psi structural concrete or concrete plank

System Type A(18): One or more layers of insulation adhered with approved adhesive, membrane fully adhered

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations:

Base Insulation Layer:	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
Approved XPS Minimum 1" thick	**N/A**	**N/A**

Top Insulation Layer:	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
DensDeck Prime Minimum 0.25" thick	**N/A**	**N/A**

Note: All insulation shall be adhered to the deck in ¾" – 1" wide beads 12" o.c. of Sarnacol OM Board Adhesive, OlyBond 500 or Spot Shot Adhesive Fastener. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Membrane (Option 1): Sarnafil G410 or S327 adhered to the insulation layers as specified below.

Attachment 1: Sarnafil G410 or S327 adhered with Sarnacol 2170 adhesive applied at 0.75-2 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.
Maximum Design Pressure: -127.5 psf. (See General Limitation #9)

Membrane (Option 2): Sarnafil G410 Felt or S327 Felt adhered to the insulation layers as specified below.

Attachment #1: Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2121 adhesive roller applied at a rate of 0.75 gal/sq. to the insulation or with Sarnacol 2170 adhesive rolled applied as a primer at a rate 1.0-1.25 gal/sq. to the insulation allowed to dry. Following a second coat roller applied of adhesive at 1.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.
Maximum Design Pressure: -112.5 psf. (See General Limitation #9)

Attachment #2: Sarnafil G410 Felt or S327 Felt adhered with Sarnacol AD Feltback Membrane Adhesive or Sarnacol OM Feltback Membrane Adhesive in 0.5" wide ribbons spaced 12" o.c. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.
Maximum Design Pressure: -120.0 psf. (See General Limitation #9)

Attachment #3: Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2170 adhesive applied at 0.75-2 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane or with Sarnacol 2121 adhesive roller applied at 0.75gal/sq. to the insulation. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.
Maximum Design Pressure: -127.5 psf. (See General Limitation #9)

Maximum Design Pressure: See Attachment. (See General Limitation #9)

Membrane Type: Single Ply, PVC

Deck Type 3I: Concrete, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(19): One or more layers of insulation adhered with approved adhesive

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Retarder (Optional):	Hot-applied:	Hot asphalt-applied base and/or ply sheets approved for use with roof cover followed by an additional asphalt-applied sheet.
	Self-Adhered:	Self-adhered base membrane approved for use with roof cover followed by an additional self-adhered sheet

One or more layers of any of the following insulations:

Base Insulation Layer (Optional):	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
Sarnatherm (a), Sarnatherm, Sarnatherm-25 PSI, ACFoam-II, ACFoam-III, ENRGY 3, H-Shield or Minimum 2.0 pcf Approved XPS or EPS (Not used with Sarnacol 2170 or Sarnacol 2170 VC)		
Minimum: 1.5" thick	**N/A**	**N/A**

Top Insulation Layer:	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
DensDeck Prime		
Minimum: 0.25" thick	**N/A**	**N/A**

Note: All insulation shall be adhered to the deck or vapor barrier in TITE-SET Roofing Adhesive or 3M Polyurethane Foam Insulation Adhesive CR-20 applied in continuous 3-inch ribbons spaced 12" o.c. Refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Membrane (Option 1): Sarnafil G410 or S327 adhered to the insulation layers as specified below.

Attachment #1: Sarnafil G410 or S327 adhered with Sarnacol 2170 VC adhesive applied at 0.75 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.
Maximum Design Pressure: -127.5 psf. (See General Limitation #9)

Attachment #2: (*With Vapor Retarder*) Sarnafil G410 or S327 adhered with Sarnacol 2170 adhesive applied at 0.75-2 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.
Maximum Design Pressure: -202.5 psf. (See General Limitation #9)

Membrane (Option 2): Sarnafil G410 Felt or S327 Felt adhered to the insulation layers as specified below.

Attachment #1: Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2121 adhesive roller applied at a rate of 0.75 gal/sq. to the insulation or with Sarnacol 2170 adhesive rolled applied as a primer at a rate 1.0-1.25 gal/sq. to the insulation allowed to dry. Following a second coat roller applied of adhesive at 1.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.
Maximum Design Pressure: -112.5 psf. (See General Limitation #9)

Attachment #2: Sarnafil G410 Felt or S327 Felt adhered with Sarnacol AD Feltback Membrane Adhesive or Sarnacol OM Feltback Membrane Adhesive in 0.5" wide ribbons spaced 12" o.c. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.
Maximum Design Pressure: -120.0 psf. (See General Limitation #9)

Attachment #3: Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2170 VC adhesive applied to the substrate in two coats with a total application rate of 2.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.
Maximum Design Pressure: -127.5 psf. (See General Limitation #9)

Attachment #4: (*With Vapor Retarder*) Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2170 adhesive applied at 0.75-2 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane or with Sarnacol 2121 adhesive roller applied at 0.75gal/sq. to the insulation. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.
Maximum Design Pressure: -202.5 psf. (See General Limitation #9)

Maximum Design Pressures: See Attachment. (See General Limitation #9)

Membrane Type: Single Ply, PVC

Deck Type 3I: Concrete, Insulated

Deck Description: Min. 2500 psi structural concrete or concrete plank

System Type A(20): One or more layers of insulation adhered with approved adhesive, membrane fully adhered

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Retarders (Optional): Any UL or FM approved vapor retarder may be installed over the deck.

One or more layers of any of the following insulations:

Insulation Layer:	Insulation Fasteners (Table 3)	Fastener Density/ft^2
Sarnatherm (a), Sarnatherm, Sarnatherm-25 PSI, ACFoam-II, ACFoam-III, JM ISO 1, ISO 95+GL, H-Shield		
Minimum 1.5" thick	**N/A**	**N/A**
DensDeck Prime		
Minimum 0.5" thick	**N/A**	**N/A**

Note: All insulation shall be adhered to the deck in 3-3.5" wide beads spaced 12" o.c. of TITE-SET Roofing Adhesive or 3M Polyurethane Foam Insulation Adhesive CR-20. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Membrane (Option 1): Sarnafil G410 or S327 adhered to the insulation layers as specified below.

Attachment #1: (*With ACFoam-II, ACFoam-III, Sarnatherm (a) and Sarnatherm-25 PSI*) Sarnafil G410 or S327 adhered with Sarnacol 2170 VC adhesive applied at 0.75 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.
Maximum Design Pressure: -97.5 psf. (See General Limitation #9)

Attachment #2: (*With DensDeck Prime*) Sarnafil G410 or S327 adhered with Sarnacol 2170 VC adhesive applied at 0.75 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.
Maximum Design Pressure: -127.5 psf. (See General Limitation #9)

Attachment #3: Sarnafil G410 or S327 adhered with Sarnacol 2170 adhesive applied at 0.75-2 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.
Maximum Design Pressure: -232.5 psf; with asphaltic vapor retarder (See General Limitation #9)

Membrane (Option 2): Sarnafil G410 Felt or S327 Felt adhered to the insulation layers as specified below.

Attachment #1: (*With ACFoam-II, ACFoam-III, Sarnatherm (a) and Sarnatherm-25 PSI*) Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2170 VC adhesive applied to the substrate in two coats with a total application rate of 2.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.
Maximum Design Pressure: -97.5 psf. (See General Limitation #9)

Attachment #2: Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2121 adhesive roller applied at a rate of 0.75 gal/sq. to the insulation or with Sarnacol 2170 adhesive rolled applied as a primer at a rate 1.0-1.25 gal/sq. to the insulation allowed to dry. Following a second coat roller applied of adhesive at 1.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.
Maximum Design Pressure: -112.5 psf. (See General Limitation #9)

Attachment #3: (*With ACFoam-II, ACFoam-III, Sarnatherm (a) and Sarnatherm-25 PSI or DensDeck Prime*) Sarnafil G410 Felt or S327 Felt adhered with Sarnacol AD Feltback Membrane Adhesive or Sarnacol OM Feltback Membrane Adhesive in 0.5" wide ribbons spaced 12" o.c. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.
Maximum Design Pressure: -120.0 psf. (See General Limitation #9)

Attachment #4: (*With DensDeck Prime*) Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2170 VC adhesive applied to the substrate in two coats with a total application rate of 2.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.
Maximum Design Pressure: -127.5 psf. (See General Limitation #9)

Attachment #5: Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2170 adhesive applied at 0.75-2 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane or with Sarnacol 2121 adhesive roller applied at 0.75gal/sq. to the insulation. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.
Maximum Design Pressure: -232.5 psf; with asphaltic vapor retarder (See General Limitation #9)

Maximum Design Pressures: See Attachment. (See General Limitation #9)

Membrane Type: Single Ply, PVC

Deck Type 3I: Concrete, Insulated

Deck Description: Min. 2500 psi structural concrete or concrete plank

System Type A(21): One or more layers of insulation adhered with approved adhesive, membrane fully adhered

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Retarders (Optional): Any UL or FM approved asphaltic vapor retarder may be installed over the deck or the base layer of insulation.

One or more layers of any of the following insulations:

Base Insulation Layer:	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
Approved EPS Minimum 1.5" thick	**N/A**	**N/A**
Approved XPS Minimum 1" thick	**N/A**	**N/A**

Top Insulation Layer:	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
DensDeck Prime Minimum 0.25" thick	**N/A**	**N/A**

Note: All insulation shall be adhered to the deck in ½" to ¾" wide beads 12" o.c. of Sarancol 2163, Sarnacol AD Board Adhesive, Sarnacol AD Feltback Membrane Adhesive, Millennium One Step Foamable Adhesive or Millennium PG-1 Low Viscosity Insulation Adhesive. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Membrane (Option 1): Sarnafil G410 or S327 adhered to the insulation layers as specified below.

Attachment #1: Sarnafil G410 or S327 adhered with Sarnacol 2170 adhesive applied at 0.75-2 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.
Maximum Design Pressure: -202.5 psf; with asphaltic vapor retarder (See General Limitation #9)

Membrane (Option 2): Sarnafil G410 Felt or S327 Felt adhered to the insulation layers as specified below.

Attachment #1: Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2121 adhesive roller applied at a rate of 0.75 gal/sq. to the insulation or with Sarnacol 2170 adhesive rolled applied as a primer at a rate 1.0-1.25 gal/sq. to the insulation allowed to dry. Following a second coat roller applied of adhesive at 1.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.
Maximum Design Pressure: -112.5 psf. (See General Limitation #9)

Attachment #2: Sarnafil G410 Felt or S327 Felt adhered with Sarnacol AD Feltback Membrane Adhesive or Sarnacol OM Feltback Membrane Adhesive in 0.5" wide ribbons spaced 12" o.c. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.
Maximum Design Pressure: -120.0 psf. (See General Limitation #9)

Attachment #3 (*With Vapor Retarder*) Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2121 adhesive roller applied at a rate of 0.75 gal/sq. to the insulation or with Sarnacol 2170 adhesive applied at 0.75-2 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.
Maximum Design Pressure: -202.5 psf; with asphaltic vapor retarder (See General Limitation #9)

Maximum Design Pressures: See Attachments. (See General Limitation #9)

Membrane Type: Single Ply, PVC

Deck Type 3I: Concrete, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(22): One or more layers of insulation adhered with approved adhesive

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Retarder (Optional):

Hot-applied: Hot asphalt-applied base and/or ply sheets approved for use with roof cover followed by an additional asphalt-applied sheet.

Self-Adhered: Self-adhered base membrane approved for use with roof cover followed by an additional self-adhered sheet.

One or more layers of any of the following insulations:

Base Insulation Layer:	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
Sarnatherm (a), Sarnatherm-25 PSI, ACFoam-II, ACFoam-III Minimum: 1.5" thick	**N/A**	**N/A**

Top Insulation Layer (Optional):	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
Sarnatherm (a), Sarnatherm-25 PSI, ACFoam-II, ACFoam-III Minimum: 1.5 " thick	**N/A**	**N/A**

Note: All insulation shall be adhered to the deck or vapor barrier in TITE-SET Roofing Adhesive or 3M Polyurethane Foam Insulation Adhesive CR-20 applied in continuous 3-inch ribbons spaced 12" o.c. Refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Membrane (Option 1): Sarnafil G410 or S327 adhered to the insulation layers as specified below.

Attachment #1: (*With ACFoam-II, ACFoam-III, Sarnatherm (a) and Sarnatherm-25 PSI*) Sarnafil G410 or S327 adhered with Sarnacol 2170 VC adhesive applied at 0.75 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.
Maximum Design Pressure: -97.5 psf. (See General Limitation #9)

Attahment #2: (*With Vapor Retarder*) Sarnafil G410 or S327 adhered with Sarnacol 2121 adhesive roller applied at a rate of 0.75 gal/sq. to the insulation or with Sarnacol 2170 adhesive applied at 0.75-2 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.
Maximum Design Pressure: -210.0 psf. (See General Limitation #9)

Membrane (Option 2): Sarnafil G410 Felt or S327 Felt adhered to the insulation layers as specified below.

Attachment #1: (*With ACFoam-II, ACFoam-III, Sarnatherm (a) and Sarnatherm-25 PSI*) Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2170 VC adhesive applied to the substrate in two coats with a total application rate of 2.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.
Maximum Design Pressure: -97.5 psf. (See General Limitation #9)

Attachment #2: Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2121 adhesive roller applied at 0.75 gal/sq. to the insulation or with Sarnacol 2170 adhesive rolled applied as a primer at a rate 1.0-1.25 gal/sq. to the insulation allowed to dry. Following a second coat roller applied of adhesive at 1.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.
Maximum Design Pressure: -112.5 psf. (See General Limitation #9)

Attachment #3: (*With ACFoam-II, ACFoam-III, Sarnatherm (a) and Sarnatherm-25 PSI*) Sarnafil G410 Felt or S327 Felt adhered with Sarnacol AD Feltback Membrane Adhesive or Sarnacol OM Feltback Membrane Adhesive in 0.5" wide ribbons spaced 12" o.c. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.
Maximum Design Pressure: -120.0 psf. (See General Limitation #9)

Attachment #4: (*With Vapor Retarder*) Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2121 adhesive roller applied at a rate of 0.75 gal/sq. to the insulation or with Sarnacol 2170 adhesive applied at 0.75-2 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.
Maximum Design Pressure: -210.0 psf. (See General Limitation #9)

Maximum Design Pressures: See Attachments. (See General Limitation #9)

Membrane Type: Single Ply, PVC

Deck Type 3I: Concrete, Insulated

Deck Description: Min. 2500 psi structural concrete or concrete plank

System Type A(23): One or more layers of insulation adhered with approved adhesive, membrane fully adhered

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations:

Insulation Layer:	Insulation Fasteners (Table 3)	Fastener Density/ft^2
Sarnatherm (a), Sarnatherm, Sarnatherm-25 PSI, ACFoam-II, ACFoam-III, ISO 95+GL, H-Shield Minimum 1.5" thick	**N/A**	**N/A**

Note: All insulation shall be adhered to the deck in 3-3.5" wide beads spaced 12" o.c. of TITE-SET Roofing Adhesive or 3M Polyurethane Foam Insulation Adhesive CR-20. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Membrane (Option 1): Sarnafil G410 or S327 adhered to the insulation layers as specified below.

Attachment #1: (*With ACFoam-II, ACFoam-III, Sarnatherm (a) and Sarnatherm-25 PSI*) Sarnafil G410 or S327 adhered with Sarnacol 2170 VC adhesive applied at 0.75 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.
Maximum Design Pressure: -97.5 psf. (See General Limitation #9)

Attahment #2: Sarnafil G410 or S327 adhered with Sarnacol 2121 adhesive roller applied at a rate of 0.75 gal/sq. to the insulation or with Sarnacol 2170 adhesive applied at 0.75-2 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.
Maximum Design Pressure: -210.0 psf. (See General Limitation #9)

Membrane (Option 2): Sarnafil G410 Felt or S327 Felt adhered to the insulation layers as specified below.

Attachment #1: (*With ACFoam-II, ACFoam-III, Sarnatherm (a) and Sarnatherm-25 PSI*) Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2170 VC adhesive applied to the substrate in two coats with a total application rate of 2.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.
Maximum Design Pressure: -97.5 psf. (See General Limitation #9)

Attachment #2: Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2121 adhesive roller applied at 0.75 gal/sq. to the insulation or with Sarnacol 2170 adhesive rolled applied as a primer at a rate 1.0-1.25 gal/sq. to the insulation allowed to dry. Following a second coat roller applied of adhesive at 1.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.
Maximum Design Pressure: -112.5 psf. (See General Limitation #9)

Attachment #3: (*With ACFoam-II, ACFoam-III, Sarnatherm (a) and Sarnatherm-25 PSI*) Sarnafil G410 Felt or S327 Felt adhered with Sarnacol AD Feltback Membrane Adhesive or Sarnacol OM Feltback Membrane Adhesive in 0.5" wide ribbons spaced 12" o.c. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.
Maximum Design Pressure: -120.0 psf. (See General Limitation #9)

Attachment #4: Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2121 adhesive roller applied at a rate of 0.75 gal/sq. to the insulation or with Sarnacol 2170 adhesive applied at 0.75-2 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.
Maximum Design Pressure: -210.0 psf. (See General Limitation #9)

Maximum Design Pressures: See Attachments. (See General Limitation #9)

Membrane Type: Single Ply, PVC

Deck Type 3I: Concrete, Insulated

Deck Description: Min. 2500 psi structural concrete or concrete plank

System Type A(24): One or more layers of insulation adhered with approved adhesive, membrane fully adhered

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Retarders (Optional): Any UL or FM approved asphaltic vapor retarder may be installed over the deck or the base layer of insulation

One or more layers of any of the following insulations:

Base Insulation Layer:	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
Sarnatherm (a), Sarnatherm, Sarnatherm-25 PSI, ACFoam-II, ACFoam-III, ENRGY 3, H-Shield Minimum 1.5" thick	**N/A**	**N/A**
DensDeck Prime Minimum 0.25" thick	**N/A**	**N/A**

Top Insulation Layer (Optional):	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
DensDeck Prime Minimum 0.25" thick	**N/A**	**N/A**

Note: All insulation shall be adhered to the deck in ½" to ¾" wide beads 12" o.c. of Sarnacol 2163, Sarnacol AD Board Adhesive, Sarnacol AD Feltback Membrane Adhesive, Millennium One Step Foamable Adhesive or Millennium PG-1 Low Viscosity Insulation Adhesive. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Membrane (Options 1): Sarnafil G410 or S327 adhered to the insulation layers as specified below.

Attachment #1: (*With ACFoam-II, ACFoam-III, Sarnatherm (a) and Sarnatherm-25 PSI*) Sarnafil G410 or S327 adhered with Sarnacol 2170 VC adhesive applied at 0.75 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.
Maximum Design Pressure: -97.5 psf. (See General Limitation #9)

Attachment #2: (*With DensDeck Prime*) Sarnafil G410 or S327 adhered with Sarnacol 2170 VC adhesive applied at 0.75 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.
Maximum Design Pressure: -127.5 psf. (See General Limitation #9)

Attachment #3: Sarnafil G410 or S327 adhered with Sarnacol 2170 adhesive applied at 0.75-2 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.
Maximum Design Pressure: -157.5 psf; with asphaltic vapor retarder (See General Limitation #9)

Attachment #4: Sarnafil G410 or S327 adhered with Sarnacol 2170 adhesive applied at 0.75-2 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.
Maximum Design Pressure: -232.5 psf; with no vapor retarder (See General Limitation #9)

Membrane (Option 2): Sarnafil G410 Felt or S327 Felt adhered to the insulation layers as specified below.

Attachment #1: (*With ACFoam-II, ACFoam-III, Sarnatherm (a) and Sarnatherm-25 PSI*) Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2170 VC adhesive applied to the substrate in two coats with a total application rate of 2.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.
Maximum Design Pressure: -97.5 psf. (See General Limitation #9)

Attachment #2: Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2121 adhesive roller applied at a rate of 0.75 gal/sq. to the insulation or with Sarnacol 2170 adhesive rolled applied as a primer at a rate 1.0-1.25 gal/sq. to the insulation allowed to dry. Following a second coat roller applied of adhesive at 1.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.
Maximum Design Pressure: -112.5 psf. (See General Limitation #9)

Attachment #3: (*With ACFoam-II, ACFoam-III, Sarnatherm (a) and Sarnatherm-25 PSI or DensDeck Prime*) Sarnafil G410 Felt or S327 Felt adhered with Sarnacol AD Feltback Membrane Adhesive or Sarnacol OM Feltback Membrane Adhesive in 0.5" wide ribbons spaced 12" o.c. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.
Maximum Design Pressure: -120.0 psf. (See General Limitation #9)

Attachment #4: (*With DensDeck Prime*) Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2170 VC adhesive applied to the substrate in two coats with a total application rate of 2.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.
Maximum Design Pressure: -127.5 psf. (See General Limitation #9)

Attachment #5: Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2170 adhesive applied at 0.75-2 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane or with Sarnacol 2121 adhesive roller applied at 0.75gal/sq. to the insulation. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.
Maximum Design Pressure: -157.5 psf; with asphaltic vapor retarder (See General Limitation #9)

Attachment #6: Sarnafil G410 or S327 adhered with Sarnacol 2170 adhesive applied at 0.75-2 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.
Maximum Design Pressure: -232.5 psf; with no vapor retarder (See General Limitation #9)

Maximum Design Pressures: See Attachment. (See General Limitation #9)

Membrane Type: Single Ply, PVC

Deck Type 3I: Concrete, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(25): One or more layers of insulation adhered with approved adhesive

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Retarder (Optional):	Hot-applied:	Hot asphalt-applied base and/or ply sheets approved for use with roof cover followed by an additional asphalt-applied sheet.
	Self-Adhered:	Self-adhered base membrane approved for use with roof cover followed by an additional self-adhered sheet

One or more layers of any of the following insulations:

Base Insulation Layer:	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
Sarnatherm, ENRGY 3, H-Shield Minimum: 1.5" thick	**N/A**	**N/A**

Top Insulation Layer (Optional):	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
Sarnatherm, ENRGY 3, H-Shield Minimum: 1.5 " thick	**N/A**	**N/A**

Note: All insulation shall be adhered to the deck or vapor barrier in TITE-SET Roofing Adhesive or 3M Polyurethane Foam Insulation Adhesive CR-20 applied in continuous 3-inch ribbons spaced 12" o.c. Refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Membrane: Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2121 adhesive roller applied at a rate of 0.75 gal/sq. to the insulation using a ¼" x ¼" notched squeegee or with Sarnacol 2170 adhesive rolled applied as a primer at a rate 1.0-1.25 gal/sq. to the insulation allowed to dry. Following a second coat roller applied of adhesive at 1.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Or

Sarnafil G410 or S327 adhered with Sarnacol 2121 adhesive roller applied at a rate of 0.752.25 gal/sq. to the insulation using a ¼" x ¼" notched squeegee or with Sarnacol 2170 adhesive applied at 0.75-21.25gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Maximum Design Pressure: -112.5 psf; Felt membranes with Sarnacol 2121 adhesive (See General Limitation #9)
-225.0 psf; with all other applications. (See General Limitation #9)

Membrane Type:	Single Ply, PVC
Deck Type 3I:	Concrete, Insulated
Deck Description:	Minimum 2500 psi structural concrete or concrete plank
System Type B:	Base Layer of insulation mechanically attached, optional top insulation layer fully adhered with approved asphalt, membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Retarder (Optional):	Any UL or FM approved vapor barrier approved for use with hot asphalt may be applied to the deck or perlite base layer.
Fire Barrier (Optional):	Minimum ¼ " Type X Gypsum or DensDeck

One or more layers of any of the following insulations:

Base Insulation Layer:	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
Sarnatherm (a), Sarnatherm, Sarnatherm-25 PSI, ACFoam-II, ACFoam-III, H-Shield		
Minimum 1.3" thick or tapered	**1 or 5**	**1:2 ft²**
Minimum 2" thick or tapered	**1 or 5**	**1:4 ft²**
Sarnatherm (a), Sarnatherm, Sarnatherm-25 PSI, ACFoam-II, ACFoam-III, ENRGY 3, ENRGY 3 Plus, ENRGY 3 25 PSI, H-Shield		
Minimum 1.4" thick or tapered	**1, 5 or 7**	**1:3 ft²**
Minimum 2" thick or tapered	**1, 5 or 7**	**1:4 ft²**
DensDeck Prime		
Minimum ¼" thick	**1, 5 or 7**	**1:1.2 ft²**
Minimum ½" thick	**1, 5 or 7**	**1:1.7 ft²**
Approved Perlite Insulation Board		
Minimum 3/4" thick	**1, 5 or 7**	**1:1 ft²**

Note: Base layers of insulation shall be mechanically attached with fasteners and density described above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

Top Insulation Layer (Optional):	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
Sarnatherm (a), Sarnatherm-25 PSI, ACFoam-II, ACFoam-III		
Minimum 1.3" thick or tapered	**N/A**	**N/A**
Sarnatherm (a), Sarnatherm, Sarnatherm-25 PSI, ACFoam-II, ACFoam-III, ENRGY 3, ENRGY 3 Plus, ENRGY 3 25 PSI, H-Shield		
Minimum 1.4" thick or tapered	**N/A**	**N/A**

DensDeck Prime
Minimum ¼" thick **N/A** **N/A**

Note: Optional top layer of insulation shall be adhered with approved asphalt within the EVT range and at a rate of 20-40 lbs./100 ft^2. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

Membrane:

Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2170 adhesive rolled applied as a primer at a rate of 1.0-1.25gal/sq. to the substrate allowed to dry. Following a second coat roller applied of adhesive at a rate 1.0 gal/sq. or with Sarnacol 2121 adhesive roller applied at 0.75 gal./sq. to the insulation. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Or

(*With ISO*) Sarnafil G410 or S327 adhered with Sarnacol 2121 adhesive roller applied at 0.75 gal/sq. to the insulation or with Sarnacol 2170 adhesive applied at 0.75-2gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Or

(*With DensDeck Prime*) Sarnafil G410 or S327 adhered with Sarnacol 2121 adhesive roller applied at 0.75 gal/sq. to the insulation or with Sarnacol 2170 adhesive applied at 0.75-2gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Or

(*With ACFoam-II, ACFoam-III, Sarnatherm (a), Sarnatherm-25 PSI or DensDeck Prime*) Sarnafil G410 or S327 adhered with Sarnacol 2170 VC adhesive applied at 0.75 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.

Or

(*With ACFoam-II, ACFoam-III, Sarnatherm (a), Sarnatherm-25 PSI or DensDeck Prime*) Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2170 VC adhesive applied to the substrate in two coats with a total application rate of 2.0 gal/sq or with Sarnacol AD Feltback Membrane Adhesive or Sarnacol OM Feltback Membrane Adhesive in 0.5" wide ribbons spaced 12" o.c. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.

Maximum Design Pressure:

-45 psf. (See General Limitation #9)

Membrane Type: Single Ply, PVC

Deck Type 3I: Concrete, Insulated

Deck Description: Minimum 2500 psi structural concrete or concrete plank

System Type C(1): All layers of insulation simultaneously fastened; membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Retarder (Optional): Any UL or FM approved vapor barrier approved for use with hot asphalt may be applied to the deck or perlite base layer.

Fire Barrier (Optional): Minimum ¼ " Type X Gypsum or DensDeck

One or more layers of any of the following insulations:

Base Insulation Layer:	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
Sarnatherm (a), Sarnatherm, Sarnatherm-25 PSI, ACFoam-II, ACFoam-III, ACFoam Supreme, H-Shield		
Minimum 1.3" thick or tapered	**N/A**	**N/A**
Sarnatherm, Sarnatherm (a), Sarnatherm-25 PSI, ACFoam-II, ACFoam-III, ENRGY 3, ENRGY 3 Plus, ENRGY 3 25 PSI, ISO 95+ GL, H-Shield		
Minimum 1.4" thick or tapered	**N/A**	**N/A**
DensDeck Prime		
Minimum ¼" thick	**N/A**	**N/A**
Approved Perlite Insulation Board (base layer only)		
Minimum ¾" thick	**N/A**	**N/A**

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Top Insulation Layer:	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
Sarnatherm (a), Sarnatherm-25 PSI, ACFoam-II, ACFoam-III		
Minimum 1.3" thick or tapered	**1, 5 or 7**	**1:2 ft²**
Minimum 2" thick or tapered	**1, 5 or 7**	**1:4 ft²**
Sarnatherm (a), Sarnatherm, Sarnatherm-25 PSI, ACFoam-II, ENRGY 3, ENRGY 3 Plus, ENRGY 3 25 PSI, ISO 95+ GL, H-Shield		
Minimum 1.4" thick or tapered	**1, 5 or 7**	**1:3 ft²**
Minimum 2" thick or tapered	**1, 5 or 7**	**1:4 ft²**

DensDeck, DensDeck Prime

Minimum ¼" thick	**1, 5 or 7**	**1:1.2 ft^2**
Minimum ½" thick	**1, 5 or 7**	**1:1.7 ft^2**

Note: All layers shall be simultaneously fastened; see top layer for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane:

Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2170 adhesive rolled applied as a primer at a rate of 1.0-1.25gal/sq. to the substrate allowed to dry. Following a second coat roller applied of adhesive at a rate of 1.0 gal/sq. or with Sarnacol 2121 adhesive roller applied at a rate of 0.75 gal./sq. to the insulation. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Or

Sarnafil G410 or S327 adhered with Sarnacol 2121 adhesive roller applied at 0.75 gal/sq. to the insulation or with Sarnacol 2170 adhesive applied at 0.75-2 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Or

(*With ACFoam-II, ACFoam-III, Sarnatherm (a) and Sarnatherm-25 PSI or DensDeck Prime*) Sarnafil G410 or S327 adhered with Sarnacol 2170 VC adhesive applied at 0.75 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.25" wide heat weld.

Or

(*With ACFoam-II, ACFoam-III, Sarnatherm (a) and Sarnatherm-25 PSI or DensDeck Prime*) Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2170 VC adhesive applied to the substrate in two coats with a total application rate of 2.0 gal/sq or with Sarnacol AD Feltback Membrane Adhesive or Sarnacol OM Feltback Membrane Adhesive in 0.5" wide ribbons spaced 12" o.c. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.25" wide heat weld.

Maximum Design Pressure:

-45 psf. (See General Limitation #9)

Membrane Type: Single Ply, PVC

Deck Type 3I: Concrete, Insulated

Deck Description: Minimum 2500 psi concrete or concrete plank

System Type C(2): All layers of insulation simultaneously fastened; membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations:

Base Insulation Layer:	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
Any approved polyisocyanurate listed in Table 2 Minimum 1.5" thick	**N/A**	**N/A**

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Top Insulation Layer:	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
DensDeck Prime Minimum 5/8" thick	**7 with 8**	**1:2 ft^2**

Note: Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2121 adhesive roller applied at a rate of 0.75 gal/sq. to the substrate or adhered with Sarnacol 2170 VC adhesive applied to the substrate in two coats with a total application rate of 2.0 gal/sq. or with Sarnacol AD or Sarnacol OM Feltback Membrane Adhesive in 0.5" wide ribbons spaced 12" o.c. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.

Or

Sarnafil G410 or S327 adhered with Sarnacol 2121 adhesive roller applied at 0.75 gal/sq. to the insulation or with Sarnacol 2170 adhesive applied at 0.75-2 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.

Or

Sarnafil G410 or S327 adhered with Sarnacol 2170 VC adhesive applied to the substrate at a rate of 0.75 gal/sq. to the subsrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.

Maximum Design Pressures:	-52.5 psf; with Felt membranes (See General Limitation #7) -60.0 psf; with Non-Felt membranes (See General Limitation #7)

Membrane Type:	Single Ply, PVC
Deck Type 3I:	Concrete, Insulated
Deck Description:	Minimum 2500 psi concrete or concrete plank.
System Type C(3):	All layers of insulation simultaneously fastened; membrane adhered using RhinoBond plate bonding tool.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations:

Base Insulation Layer:	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
Sarnatherm, H-Shield Minimum 1.5" thick	**N/A**	**N/A**

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Top Insulation Layer (Optional):	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
Any approved cover board listed in Table 2 Minimum 0.25" thick	**10, 14 & 15 (#14)**	**See Design Pressure**

Note: Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sarnafil S327 and Sikaplan bonded to RhinoBond Insulation Plates with RhinoBond Plate bonding tool at 6 seconds per plate so the tool reaches 400ºF. Minimum 3" wide side lap is sealed with a minimum ¾" wide heat weld.

	Maximum Pressure	**Fastener Spacing**	**Fastener Row Spacing**
Maximum Design Pressures:	-45 psf (See General Limitation #7	2 ft.	3 ft.
	-60 psf (See General Limitation #7)	2 ft.	2 ft.

Membrane Type: Single Ply, PVC

Deck Type 3I: Concrete, Insulated

Deck Description: Minimum 2500 psi concrete or concrete plank

System Type C(4): All layers of insulation simultaneously fastened; membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations:

Base Insulation Layer:	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
Sarnatherm (a), Sarnatherm, Sarnatherm 25 PSI, ACFoam-II, ACFoam-III, ACFoam-IV, H-Shield		
Minimum: 1.5" thick	**N/A**	**N/A**

Top Insulation Layer:	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, SECUROCK Glass-Mat Roof Board, Invinsa Roof Board, H-Shield HD		
Minimum 0.5" thick	**8 with 15 (#12)**	**1:1 ft²**

Note: Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sarnafil S327 Felt or G410 Felt adhered with Sarnacol AD Feltback Membrane Adhesive or Sarnacol OM Feltback Membrane Adhesive applied in four rows of 0.5" wide ribbons spaced 12" o.c. and rolled with a weighted roller. Minimum 1.5" wide side lap heat weld.

Or

Sarnafil G410 or S327 adhered with Sarnacol 2170 VC adhesive applied at 0.75 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane or Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2170 VC adhesive applied to the substrate in two coats with a total application rate of 2.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.

Maximum Design Pressure: -120.0 psf. (See General Limitation #7)

Membrane Type: Single Ply, PVC

Deck Type 3I: Concrete, Insulated

Deck Description: Min. 2500 psi concrete or concrete plank

System Type D(1): Membrane attached over preliminary fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Retarders (Optional): Sarnavap-10 or a FM approved vapor barrier applied directly to the deck or over the base insulation layer.

Fire Barrier (Optional): Minimum 5/8" Type X Gypsum or 1/4" DensDeck secured with Miami-Dade County approved insulation fasteners at not less than 2 fasteners for a board with no dimension greater than 4' and not less than four fasteners for any board with any greater dimension than 4'.

Insulation Layer:	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
Any approved cover board listed in Table 2 Minimum 1.5" thick	**N/A**	**N/A**

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

Membrane: Sikaplan attached to deck as specified below.

Sarnafastener-XP, Sarnafastener Concrete or Sarnafastener #14 fasteners with Sarnadisc XPN plates spaced 6" o.c. within 5.5" wide side laps spaced maximum 114.5" o.c. Laps are sealed with a minimum 0.5" wide outside edge heat weld.

Maximum Design Pressures: -45.0 psf. (See General Limitation #7)

Membrane Type: Single Ply, PVC

Deck Type 3I: Concrete, Insulated

Deck Description: Minimum 2500 psi concrete or concrete plank

System Type D(2): Membrane attached over preliminary fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Retarders (Optional): Sarnavap-10 or a FM approved vapor barrier applied directly to the deck or over the base insulation layer.

Fire Barrier (Optional): Minimum 5/8" Type X Gypsum, 1/4" DensDeck secured with Dade County approved insulation fasteners at not less than 2 fasteners for a board with no dimension greater than 4' and not less than four fasteners for any board with any greater dimension than 4'.

Insulation Layer:	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
Any approved cover board listed in Table 2 Minimum 1.3" thick	**N/A**	**N/A**

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

Membrane: Sikaplan attached to deck as specified below with Sarnarail Polymer Batten Strips spaced at 114.5" o.c. within a 5.5" wide lap.

Sarnafastener-XP, Sarnafastener Concrete or Sarnafastener #14 fasteners spaced 6" o.c. through batten strip. Batten strip is lapped 8" and sealed with a 1.25" wide heat weld on outside edge and a 0.75" wide heat weld on inside edge.

Maximum Design Pressures: -52.5 psf. (See General Limitation #7)

Membrane Type: Single Ply, PVC

Deck Type 3I: Concrete, Insulated

Deck Description: Minimum 2500 psi concrete or concrete plank

System Type D(3): Membrane attached over preliminary fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Retarders (Optional): Sarnavap-10 or a FM approved vapor barrier applied directly to the deck or over the base insulation layer.

Fire Barrier (Optional): Minimum 5/8" Type X Gypsum, 1/4" DensDeck secured with Dade County approved insulation fasteners at not less than 2 fasteners for a board with no dimension greater than 4' and not less than four fasteners for any board with any greater dimension than 4'.

Insulation Layer:	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
Any approved cover board listed in Table 2 Minimum 1.3" thick	**N/A**	**N/A**

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

Membrane: Sikaplan attached to deck as specified below.

Sarnafastener-XP, Sarnafastener Concrete or Sarnafastener #14 fasteners with Sarnadisc-XPN plates spaced 6" o.c. within 5.5" wide laps spaced 114.5" o.c. Laps are sealed with a 1.75" wide heat weld on outside edge of lap.

Maximum Design Pressures: -60.0 psf. (See General Limitation #7)

Membrane Type: Single Ply, PVC

Deck Type 2I: Concrete, Insulated

Deck Description: Minimum 2500 psi concrete or concrete plank

System Type D(4): Membrane attached over preliminary fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Retarders (Optional): Sarnavap-10 or a FM approved vapor barrier applied directly to the deck or over the base insulation layer.

Fire Barrier (Optional): Minimum 5/8" Type X Gypsum, 1/4" DensDeck secured with Dade County approved insulation fasteners at not less than 2 fasteners for a board with no dimension greater than 4' and not less than four fasteners for any board with any greater dimension than 4'.

Insulation Layer:	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
Any approved cover board listed in Table 2 Minimum 1.5" thick	**N/A**	**N/A**

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

Membrane: Sarnafil S327 attached to deck as specified below with Sarnarail Polymer Batten Strips.

Sarnafastener-XP, Sarnafastener Concrete or Sarnafastener #14 fasteners spaced 6" o.c. through batten strip spaced maximum 144" o.c. within the 5.5" wide side lap. Batten strip splice joints are made by overlapping the batten 12" and securing with two Sarnafastener XP screws spaced 6" o.c. Laps are sealed with at 1.5" wide heat weld on the outside edge and 1.0" wide heat weld on the inside edge.

Maximum Design Pressures: -60.0 psf. (See General Limitation #7)

Membrane Type: Single Ply, PVC

Deck Type 3I: Concrete, Insulated

Deck Description: Min. 2500 psi structural concrete or concrete plank

System Type D(5): Membrane attached over preliminary fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Retarders (Optional): Sarnavap-10 or a FM approved vapor barrier applied directly to the deck or over the base insulation layer.

Fire Barrier (Optional): Minimum 5/8" Type X Gypsum, 1/4" DensDeck secured with Dade County approved insulation fasteners at not less than 2 fasteners for a board with no dimension greater than 4' and not less than four fasteners for any board with any greater dimension than 4'.

Insulation Layer:	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
Any approved cover board listed in Table 2 Minimum 1.5" thick	**N/A**	**N/A**

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

Membrane: Sikaplan attached to deck as specified below.

Sarnafastener-XP, Sarnafastener Concrete, Sarnafastener #14 fasteners or OMG Large Head #15 Roofgrip fasteners with ¾" wide Sarnarail Polymer Batten Strip spaced 6" o.c. within 5.5" wide side laps spaced maximum 114.5" o.c. Batten Strip is lapped 8" within lap to provide a minimum 2 screw securement in lap. Laps are sealed with a minimum 1.25" wide outside edge heat weld and minimum 0.75" wide inside edge heat weld.

Maximum Design Pressures: -60.0 psf. (See General Limitation #7)

Membrane Type: Single Ply, PVC

Deck Type 3I: Concrete, Insulated

Deck Description: Minimum 2500 psi concrete or concrete plank

System Type D(6): Membrane attached over preliminary fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Retarders (Optional): Sarnvap-10 or a FM approved vapor barrier applied directly to the deck or over the base insulation layer.

Fire Barrier (Optional): Minimum 5/8" Type X Gypsum or 1/4" DensDeck secured with Miami-Dade County approved insulation fasteners at not less than 2 fasteners for a board with no dimension greater than 4' and not less than four fasteners for any board with any greater dimension than 4'.

One or more layers of the following insulations:

Insulation Layer:	Insulation Fasteners (Table 3)	Fastener Density/ft^2
Any approved Polyisocyanurate insulation board listed in Table 2 Minimum 1.5" thick	**N/A**	**N/A**

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

Membrane: Sarnafil S327 or Sikaplan attached to deck as specified below with Sarnarail Polymer Batten Strips.

Fastening #1: Sarnafastener-XP, Sarnafastener Concrete or Sarnafastener #14 fasteners spaced 12" o.c. through batten strip spaced maximum 73.25" o.c. within the 5.5" wide side lap. Batten strip splice joints are made by overlapping the batten 18" and securing with two Sarnafastener XP, Sarnafastener Concrete or Sarnafastener #14 fasteners spaced 12" o.c. Laps are sealed with at 1.5" wide heat weld on the outside edge and 1.0" wide heat weld on the inside edge.
Maximum Design Pressure -45.0 psf. (See General Limitation #7)

Fastening #2: Sarnafastener-XP, Sarnafastener Concrete or Sarnafastener #14 fasteners spaced 6" o.c. through batten strip spaced maximum 73.25" o.c. within the 5.5" wide side lap. Batten strip splice joints are made by overlapping the batten 12" and securing with two Sarnafastener XP, Sarnafastener Concrete or Sarnafastener #14 fasteners spaced 6" o.c. Laps are sealed with at 1.5" wide heat weld on the outside edge and 1.0" wide heat weld on the inside edge.
Maximum Design Pressure -75.0 psf. (See General Limitation #7)

Maximum Design Pressures: See Fastening Pattern. (See General Limitation #7)

Membrane Type: Single Ply, PVC

Deck Type 3I: Concrete, Insulated

Deck Description: Minimum 2500 psi structural concrete or concrete plank

System Type D(7): Membrane mechanically attached over preliminary fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Retarder (Optional): Sarnavap-10 or a FM approved vapor barrier applied directly to the deck or over the base insulation layer.

Fire Barrier (Optional): Minimum 5/8" Type X Gypsum, 1/4" DensDeck, secured with Miami-Dade County approved insulation fasteners at not less than 2 fasteners for a board with no dimension greater than 4' and not less than four fasteners for any board with any greater dimension than 4'.

Base Insulation Layer	Fastener Density/ft^2	Fastener Type
Sarnatherm (a), Sarnatherm, Sarnatherm 25 PSI, ACFoam-II, ACFoam-III, ACFoam Composite (bottom layer only), ACFoam Supreme, H-Shield		
Minimum 1.3" thick or tapered	N/A	N/A
Sarnatherm (a), Sarnatherm, Sarnatherm 25 PSI, ACFoam-II, ACFoam-III, ENRGY-3, ENRGY-3 Plus, ENRGY 3 25 PSI, ISO 95+ GL, H-Shield		
Minimum 1.4" thick or tapered	N/A	N/A
DensDeck, DensDeck Prime		
Minimum ¼"" thick	N/A	N/A

Note: All insulation shall have preliminary attachment prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft. and four fasteners for any insulation board having no dimension greater than 8 ft.

Membrane: Sarnafil S327 or Sikaplan attached to deck as specified below.

Fastening #1: SFS Dekfast 14, Dekfast 15 HS, Sarnafastener-XP, Sarnafastener Concrete or Sarnafastener #14 fasteners with approved discs spaced 6" o.c. within the minimum 5.5" side lap spaced maximum 73" o.c. and sealed a minimum 1.5" weld on each side of the sheet.
Maximum Design Pressure: -52.5 psf. (See General Limitation #7)

Fastening #2: Sarnafastener with Sarnabars spaced 12' o.c. maximum fastened with Sarnafastener spaced 6" o.c. through the field of the membrane and covered with a 7" minimum width cover strip with minimum 1.5" welds on each side of the sheet**.**
Maximum Design Pressure: -52.5 psf. (See General Limitation #7)

Fastening #3: Sarnafastener-XP, Sarnafastener Concrete or Sarnafastener #14 fasteners with approved plates spaced maximum 6" o.c. within the minimum 5.5" wide side laps. Laps spaced maximum 73.5" apart and sealed with minimum 1.5" wide heat weld.
Maximum Design Pressure: -75 psf. (See General Limitation #7)

Fastening #4: Sarnabar spaced maximum 4.5' o.c. secured to deck with Sarnafastener-Concrete or CD-10 fasteners spaced maximum 12" o.c. A 9" wide cover strip was heat welded over the batten bars using 1.5" wide heat weld on the edges of each strip.
Maximum Design Pressure: -120 psf. (See General Limitation #7)

Fastening #5: Sarnabar spaced maximum 4.5' o.c. secured to deck with Sarnafastener-Concrete or CD-10 fasteners spaced maximum 6" o.c**.** A 9" wide cover strip was heat welded over the batten bars using 1.5" wide heat weld on the edges of each strip.
Maximum Design Pressure: -232.5 psf. (See General Limitation #7)

Maximum Design Pressure: See Above for fastening

Membrane Type: Single Ply, PVC

Deck Type 3I: Concrete, Insulated

Deck Description: Minimum 2500 psi concrete or concrete plank

System Type D(8): Membrane attached over preliminary fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Retarders (Optional): Sarnavap-10 or a FM approved vapor barrier applied directly to the deck or over the base insulation layer.

Fire Barrier (Optional): Minimum 5/8" Type X Gypsum, 1/4" DensDeck secured with Dade County approved insulation fasteners at not less than 2 fasteners for a board with no dimension greater than 4' and not less than four fasteners for any board with any greater dimension than 4'.

Insulation Layer:	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
Any approved cover board listed in Table 2		
Minimum 1.5" thick	**N/A**	**N/A**

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

Membrane: Sarnafil S327 or Sikaplan attached to deck as specified below.

Fastening #1: Sarnafastener-XP, Sarnafastener Concrete or Sarnafastener #14 fasteners and Sarnarail Polymer Batten Strip spaced 12" o.c. within 5.5" wide side laps spaced maximum 54" o.c. Laps are sealed with a minimum 1" wide outside heat weld and a minimum 5/8" wide inside heat weld.
Maximum Design Pressure -52.5 psf. (See General Limitation #7)

Fastening #2: Sarnafastener-XP, Sarnafastener Concrete or Sarnafastener #14 fasteners and Sarnadisc XPN plates spaced 12" o.c. within 5.5" wide side laps spaced maximum 54" o.c. Laps are sealed with a minimum 1.6" wide outside heat weld.
Maximum Design Pressure -60.0 psf. (See General Limitation #7)

Fastening #3: Sarnafastener-XP, Sarnafastener Concrete or Sarnafastener #14 fasteners and Sarnadisc XPN plates spaced 6" o.c. within 5.5" wide side laps spaced maximum 54" o.c. Laps are sealed with a minimum 1.6" wide outside heat weld.
Maximum Design Pressure -90.0 psf. (See General Limitation #7)

Maximum Design Pressures: See Fastening Pattern. (See General Limitation #7)

Membrane Type: Single Ply, PVC

Deck Type 3I: Concrete, Insulated

Deck Description: Minimum 2500 psi concrete or concrete plank

System Type D(9): Membrane attached over preliminary fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Retarders (Optional): Sarnavap-10 or a FM approved vapor barrier applied directly to the deck or over the base insulation layer.

Fire Barrier (Optional): Minimum 5/8" Type X Gypsum or ¼ " DensDeck, secured with Miami-Dade County approved insulation fasteners at not less than 2 fasteners for a board with no dimension greater than 4' and not less than four fasteners for any board with any greater dimension than 4'.

One or more of the following.

Base Insulation Layer	Fastener Density/ft^2	Fastener Type
Sarnatherm (a), Sarnatherm, Sarnatherm 25 PSI, ACFoam-II, ACFoam-III, ACFoam Composite (bottom layer only), ACFoam Supreme, H-Shield **Minimum 1.3" thick or tapered**	N/A	N/A
Sarnatherm (a), Sarnatherm, Sarnatherm 25 PSI, ACFoam-II, ACFoam-III, ENRGY-3, ENRGY-3 Plus, ENRGY 3 25 PSI, ISO 95+ GL, H-Shield **Minimum 1.4" thick or tapered**	N/A	N/A
DensDeck, DensDeck Prime **Minimum ¼" thick**	N/A	N/A
Approved Perlite Insulation Board (base layer only) **Minimum ¾" thick**	N/A	N/A

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

Membrane: Sarnafil S327 or Sikaplan attached to deck as specified below.

Fastening #1: Sarnafastener-XP, Sarnafastener Concrete or Sarnafastener #14 fasteners and plates spaced 12" o.c. within 5.5" wide side laps. Laps spaced 72.5" o.c. and sealed with a 1.5" wide heat weld.
Maximum Design Pressure -45 psf. (See General Limitations # 7)

Fastening #2: Sarnafastener-XP, Sarnafastener Concrete or Sarnafastener #14 fasteners and plates spaced 6" o.c. within 5.25" wide side laps. Laps spaced 73.5" o.c. and sealed with a 1.5" wide heat weld.
Maximum Design Pressure -60 psf. (See General Limitations # 7)

Fastening #3: Sarnabars spaced 3’ o.c. maximum fastened with Sarnafasteners-XP spaced 6” o.c. through the field of the membrane and covered with a 7” minimum width cover strip with 1.5” welds on each side.
Maximum Design Pressure -112.5 psf. (See General Limitations # 7)

Maximum Design Pressures: See Fastening Pattern. (See General Limitations # 7)

Membrane Type: Single Ply, PVC

Deck Type 3: Concrete, Non-Insulated

Deck Description: Minimum 2500 psi structural concrete or concrete plank.

System Type F(1): Membrane fully adhered to deck.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Membrane: Sarnafil G410 Felt or S327 Felt adhered with Sarnacol AD Feltback Membrane Adhesive or Sarnacol OM Feltback Membrane Adhesive in 0.5" wide ribbons spaced 12" o.c. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Or

Sarnafil G410 or S327 adhered with Sarnacol 2170 adhesive roller applied to the substrate at a rate of 2 to 2.5 gal./sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Maximum Design Pressure: -390 psf. (See General Limitation #9)

Membrane Type: Single Ply, PVC

Deck Type 3: Concrete, Non-Insulated

Deck Description: Minimum 2500 psi structural concrete or concrete plank.

System Type F(2): Membrane fully adhered to deck.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Membrane: Sarnafil S327 Felt or G410 Felt adhered with Sarnacol AD Feltback Membrane Adhesive or Sarnacol OM Feltback Membrane Adhesive applied in four rows of 0.5" wide ribbons spaced 4" o.c. and rolled with a weighted roller. The adhesive will spread out after foaming to produce full coverage.

Or

Sarnafil G410 Felt adhered with Sarnacol 2170 VC adhesive applied to only the substrate in two coats with a total application rate of 2.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.

Maximum Design Pressure: -495.0 psf. (See General Limitation #9)

Membrane Type: Single Ply, PVC

Deck Type 3: Concrete, Non-Insulated

Deck Description: Minimum 2500 psi structural concrete or concrete plank.

System Type F(3): Membrane fully adhered to deck

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Membrane: Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2170 adhesive roller applied to the substrate at a rate of 2.0 gal./sq. Roof cover immediately placed into adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Maximum Design Pressure: -547.5 psf. (See General Limitation #9)

Membrane Type: Single Ply, PVC

Deck Type 3: Concrete, Non-Insulated

Deck Description: Minimum 2500 psi structural concrete or concrete plank.

System Type F(4): Membrane fully adhered to deck.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Membrane: Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2121 adhesive squeegee applied to the substrate at a rate of 2 to 2.5 gal./sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Maximum Design Pressure: -615 psf. (See General Limitation #9)

CONCRETE DECK SYSTEM LIMITATIONS:

1. If mechanical attachment to the structural deck through the lightweight insulating concrete is proposed, a field withdrawal resistance testing shall be performed to determine equivalent or enhanced fastener patterns and density. All testing and fastening design shall be in compliance with Testing Application Standard TAS 105 and Roofing Application Standard RAS 117 and/or RAS 137, calculations shall be signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant.

GENERAL LIMITATIONS:

1. Fire classification is not part of this acceptance; refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer
3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each side lap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq. **Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.**
5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. Insulation attachment shall not be acceptable.
6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117 and/or RAS 137. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant **(When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)**
8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform to Roofing Application Standard RAS 111 and applicable wind load requirements.
9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). **(When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)**
10. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.

END OF THIS ACCEPTANCE